



# TE P/N 1513461-1 6 Element MIMO Antenna Assembly

June 17, 2009

October 14, 2009

# Specifications

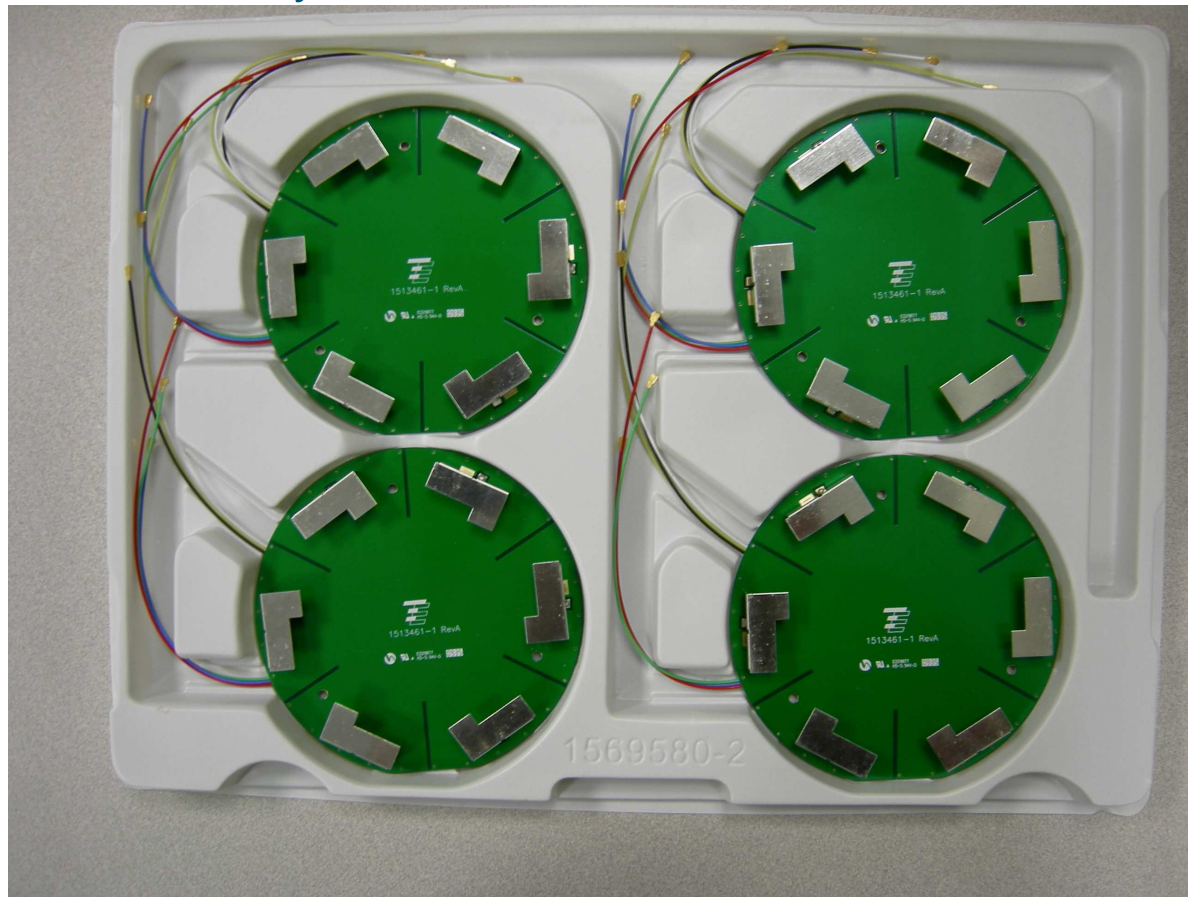
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- Frequency: 2.4 – 2.485 and 4.9 – 5.9 GHz.
- Gain: <6 dBi Max
- VSWR: <2.5:1
- Polarization: Linear
- Power: 2 watts Max
- Impedance: 50 ohms (typical)
- Cables: 6X 1.13 diam.
- Connectors: 6X u.fl or equivalent
- Weight: 45 grams
- Temperature: +65° C operating and storage

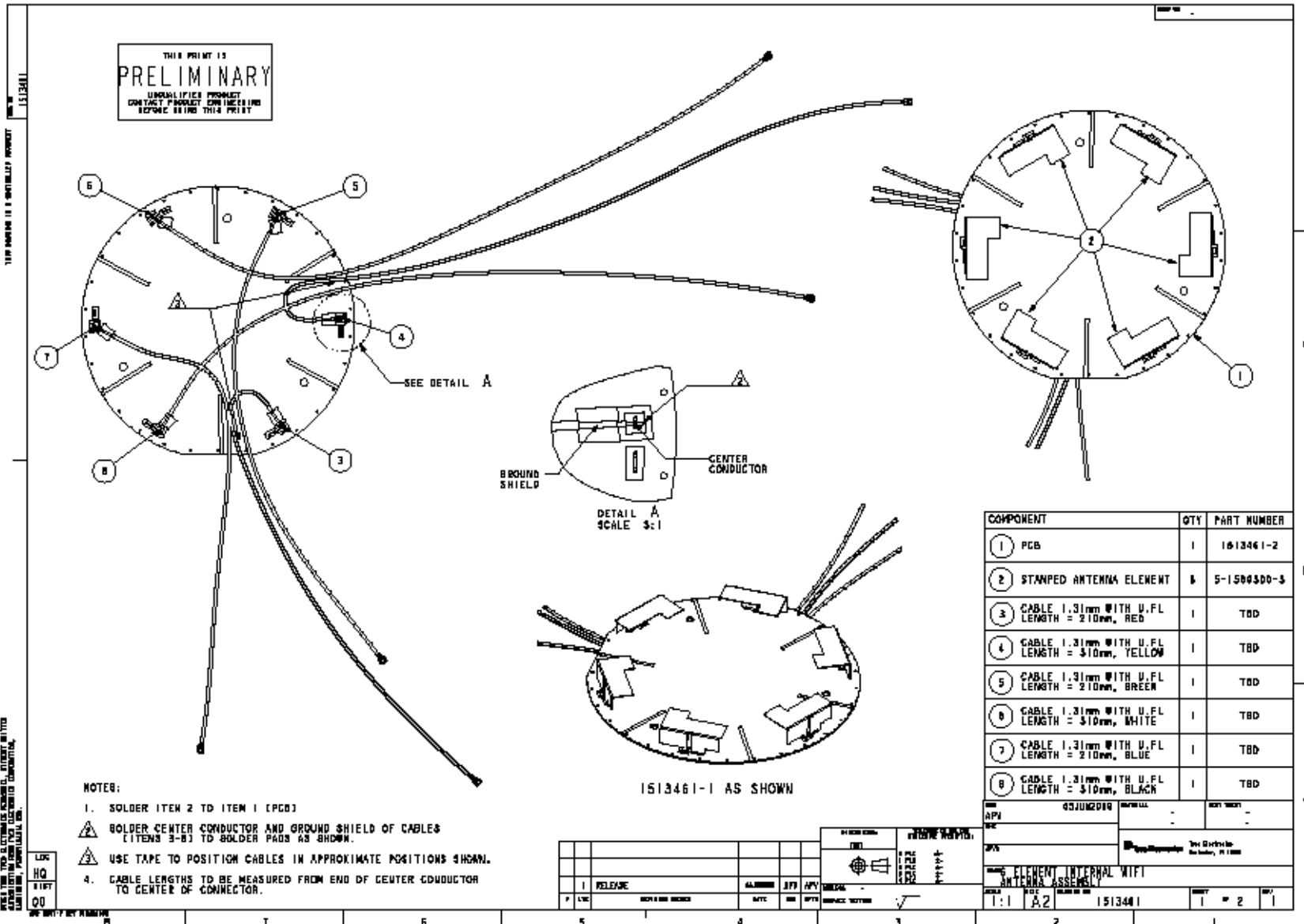
# Packaging

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- 290 mm x 390 mm tray

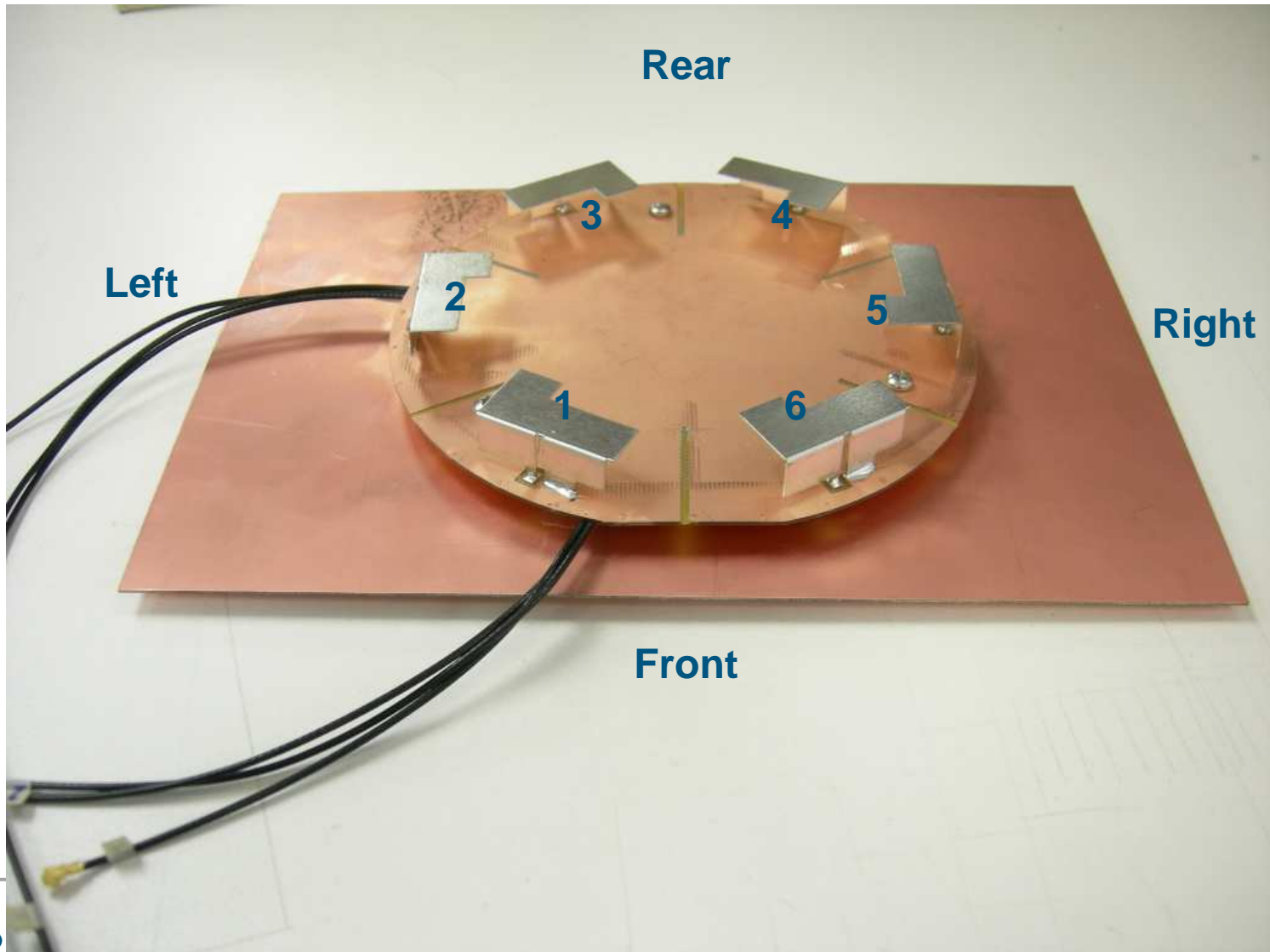


# Drawing



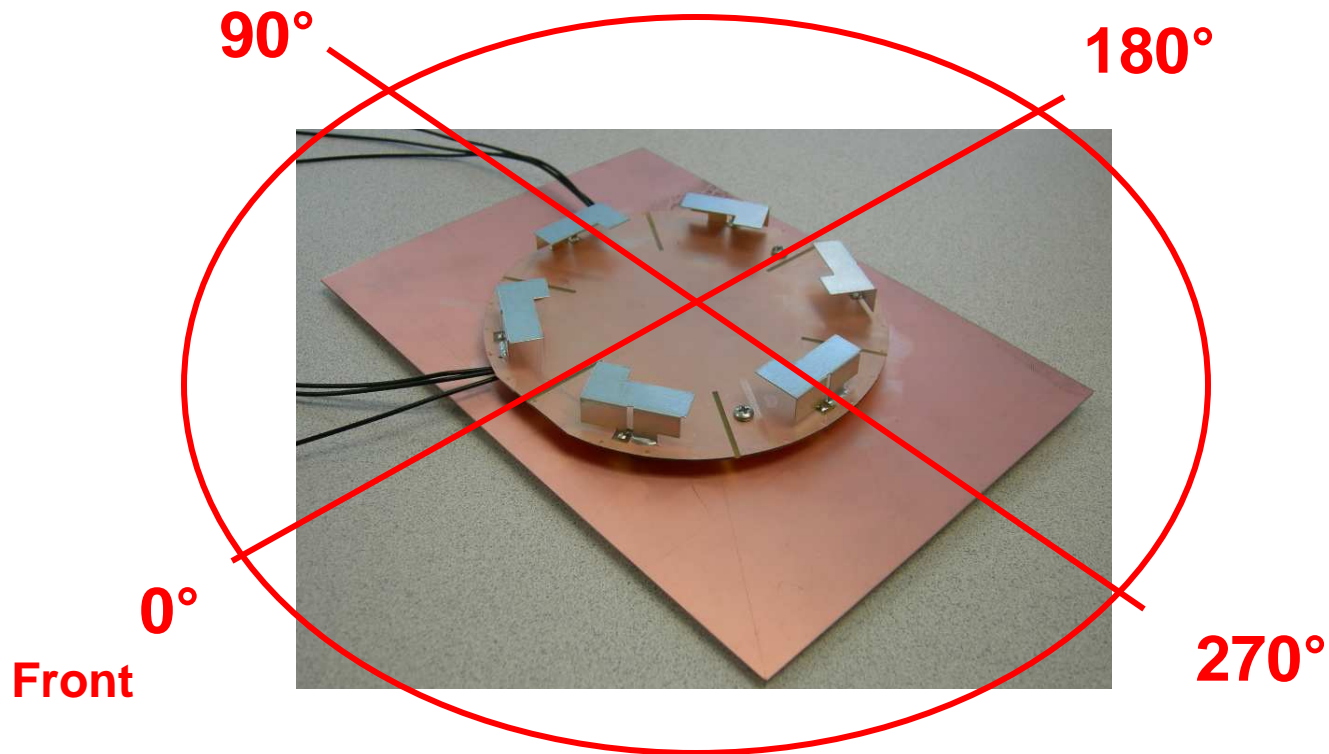
# Test Orientation

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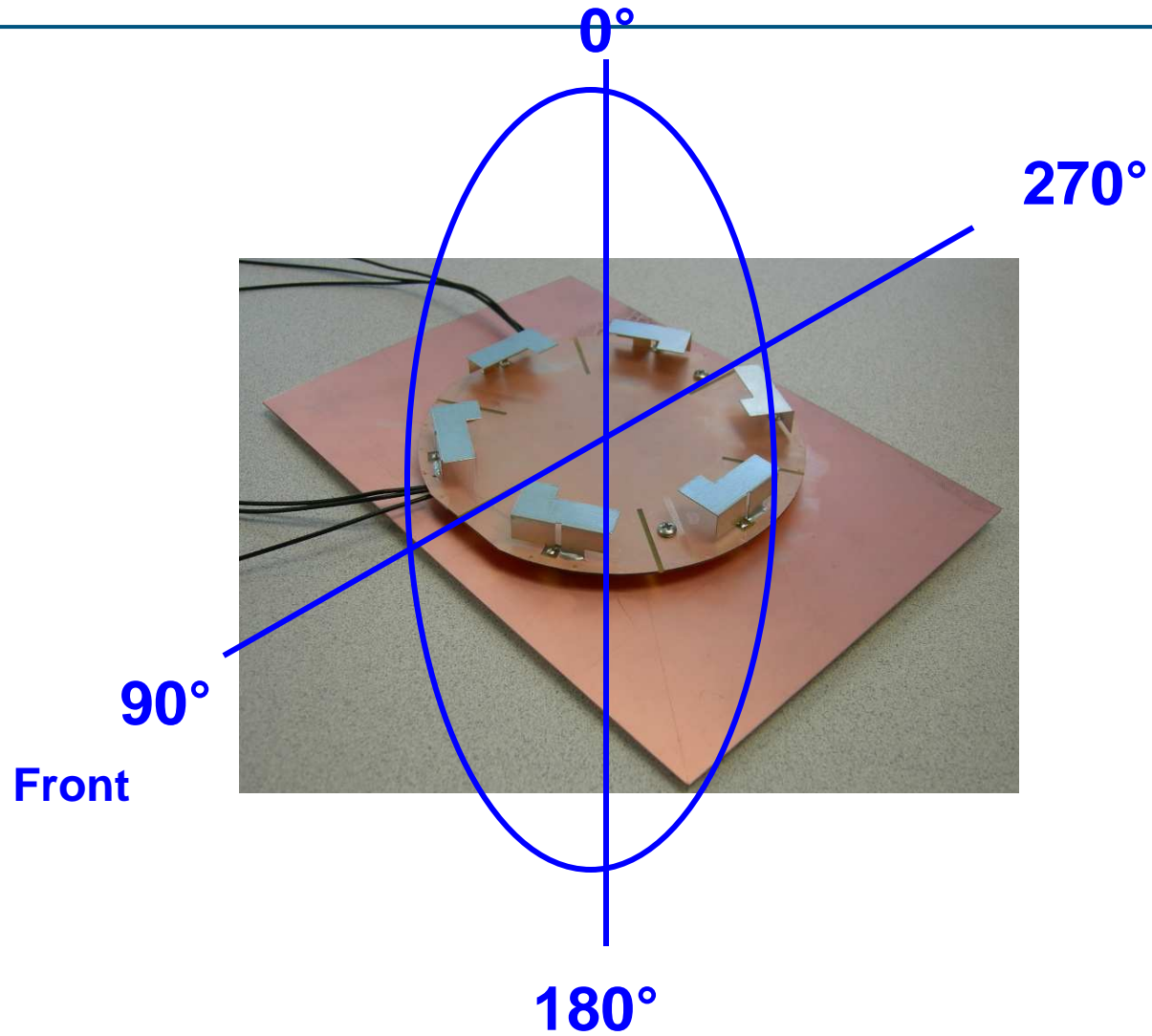
# Azimuth Plane

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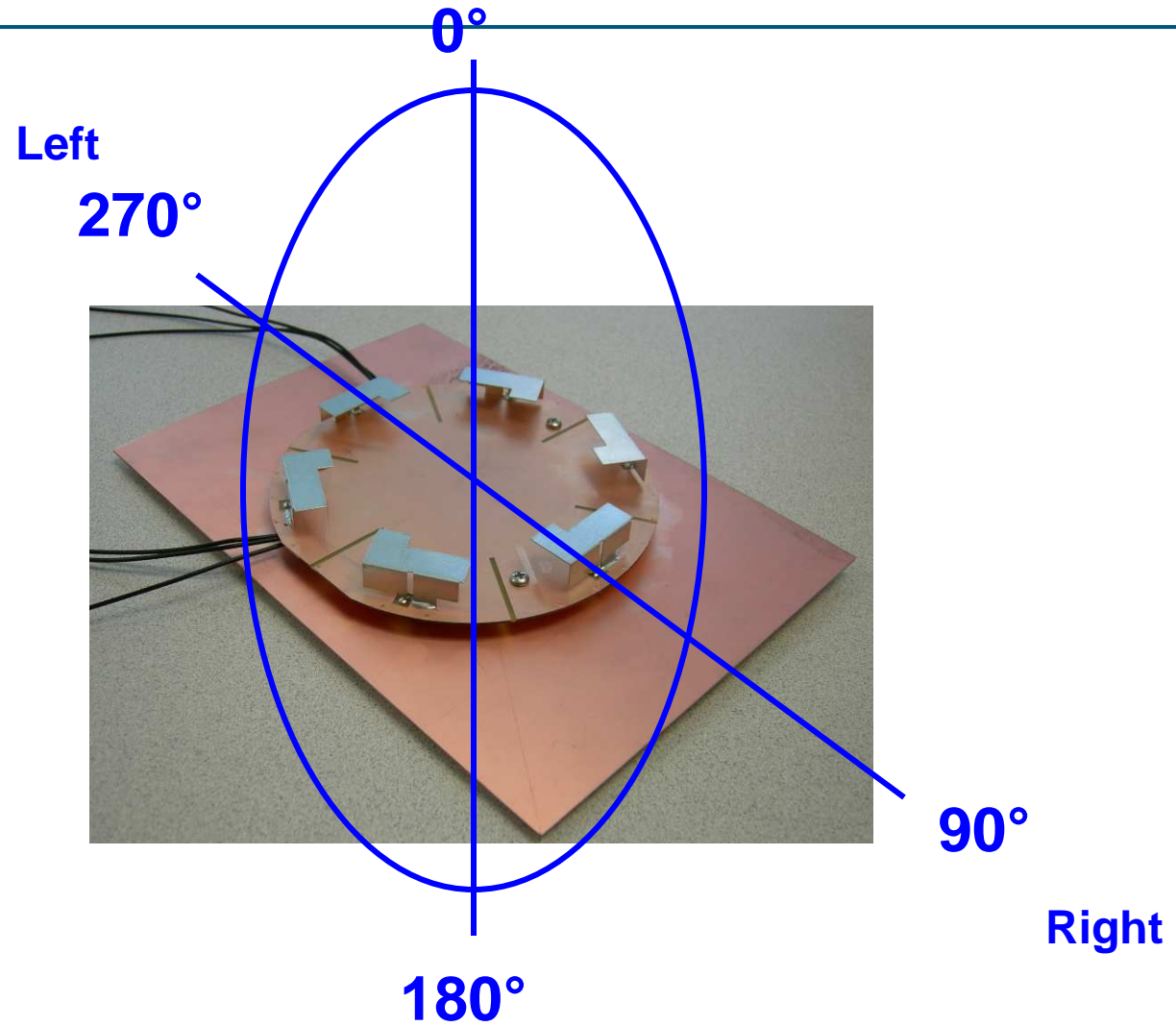


# Elevation 1 Plane

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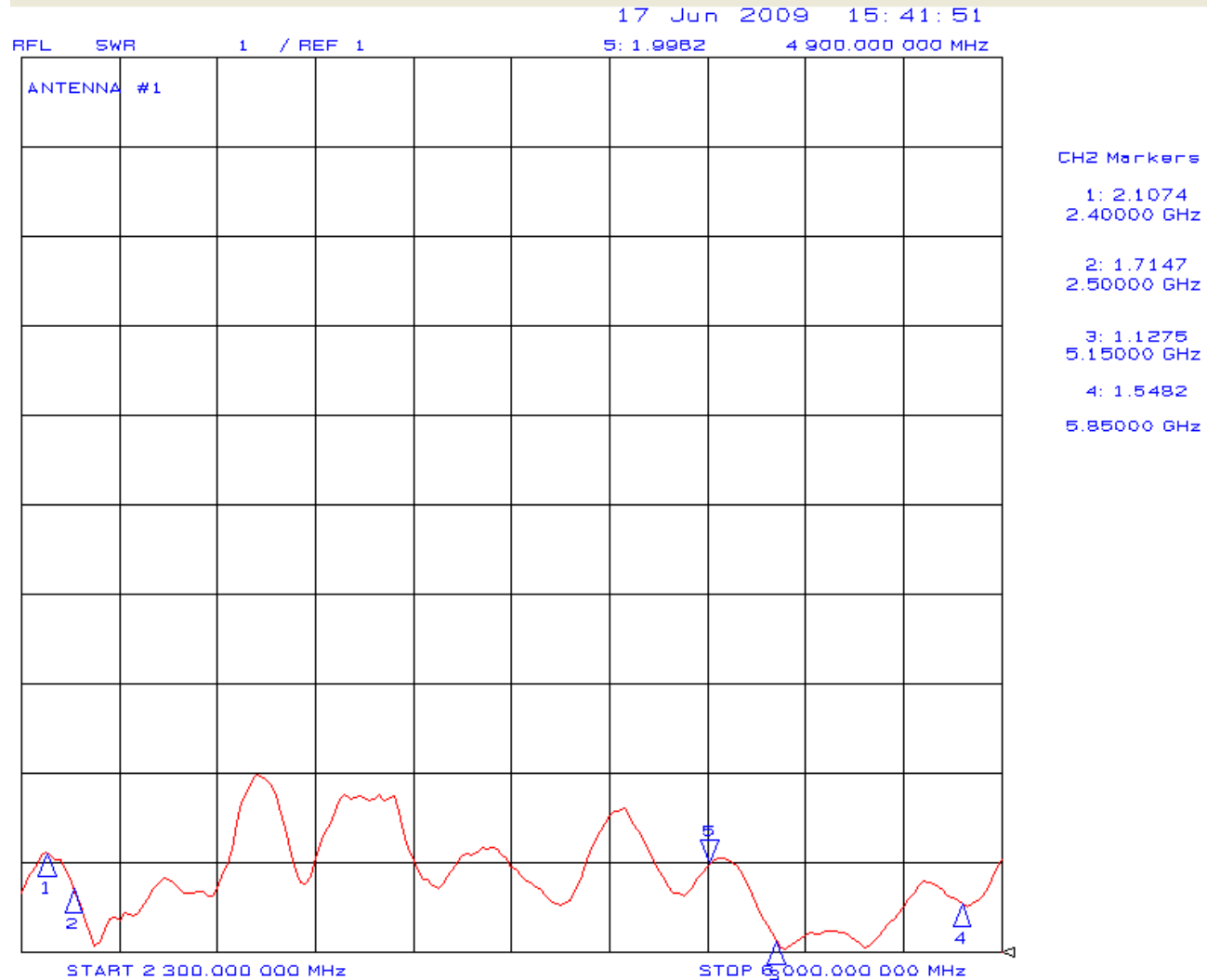


# Elevation 2 Plane

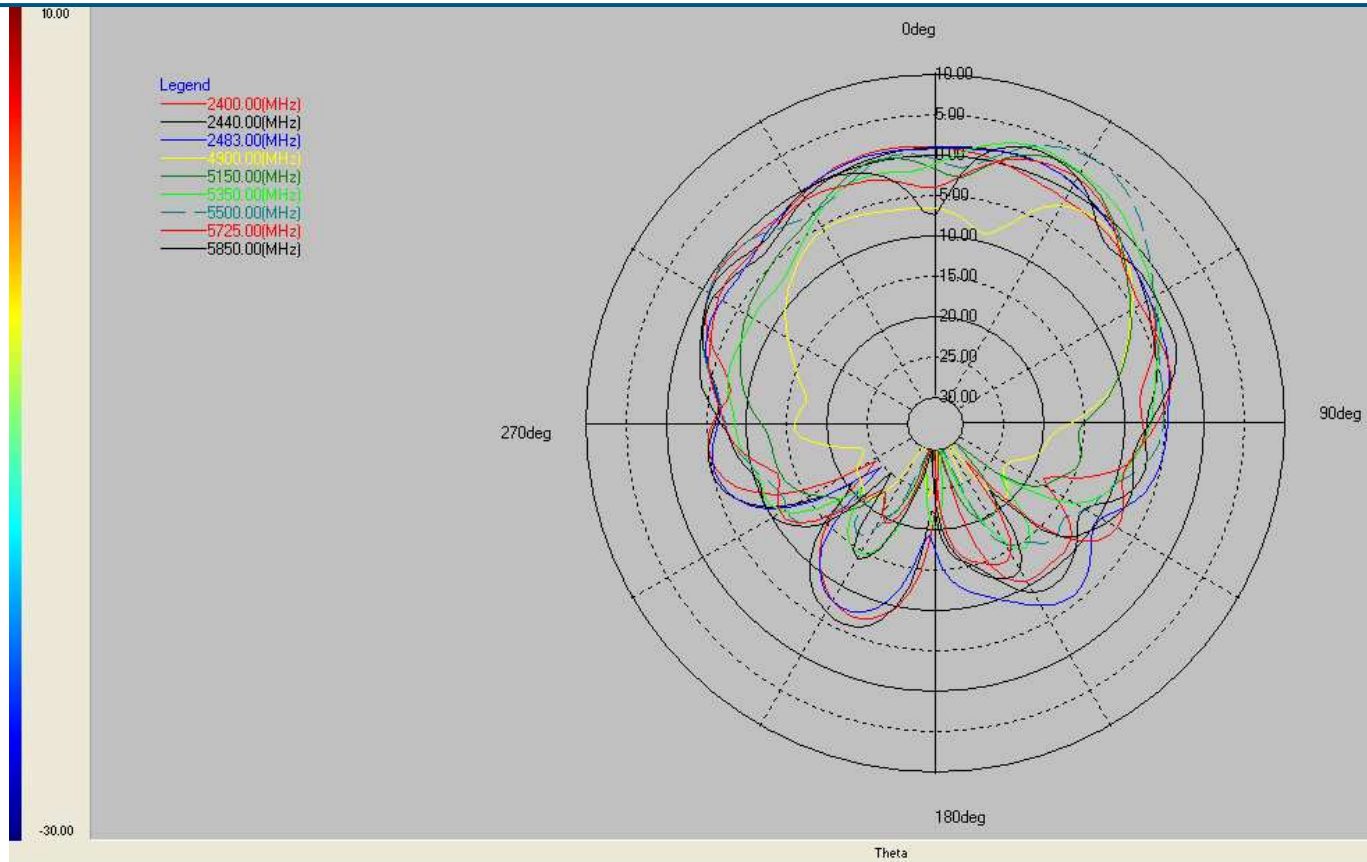




# Antenna 1 VSWR

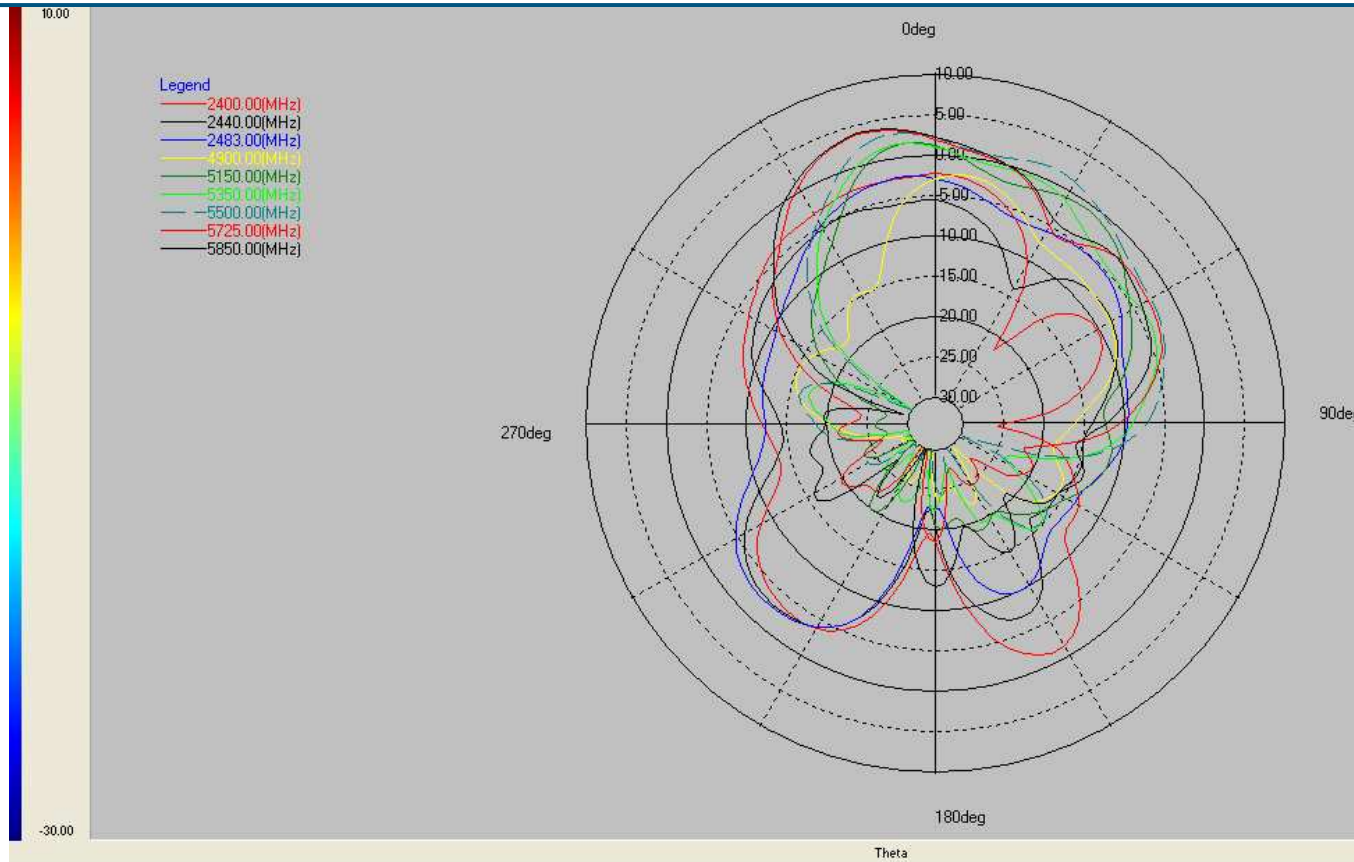


# Antenna 1 Elevation 1 Vertical Polarization



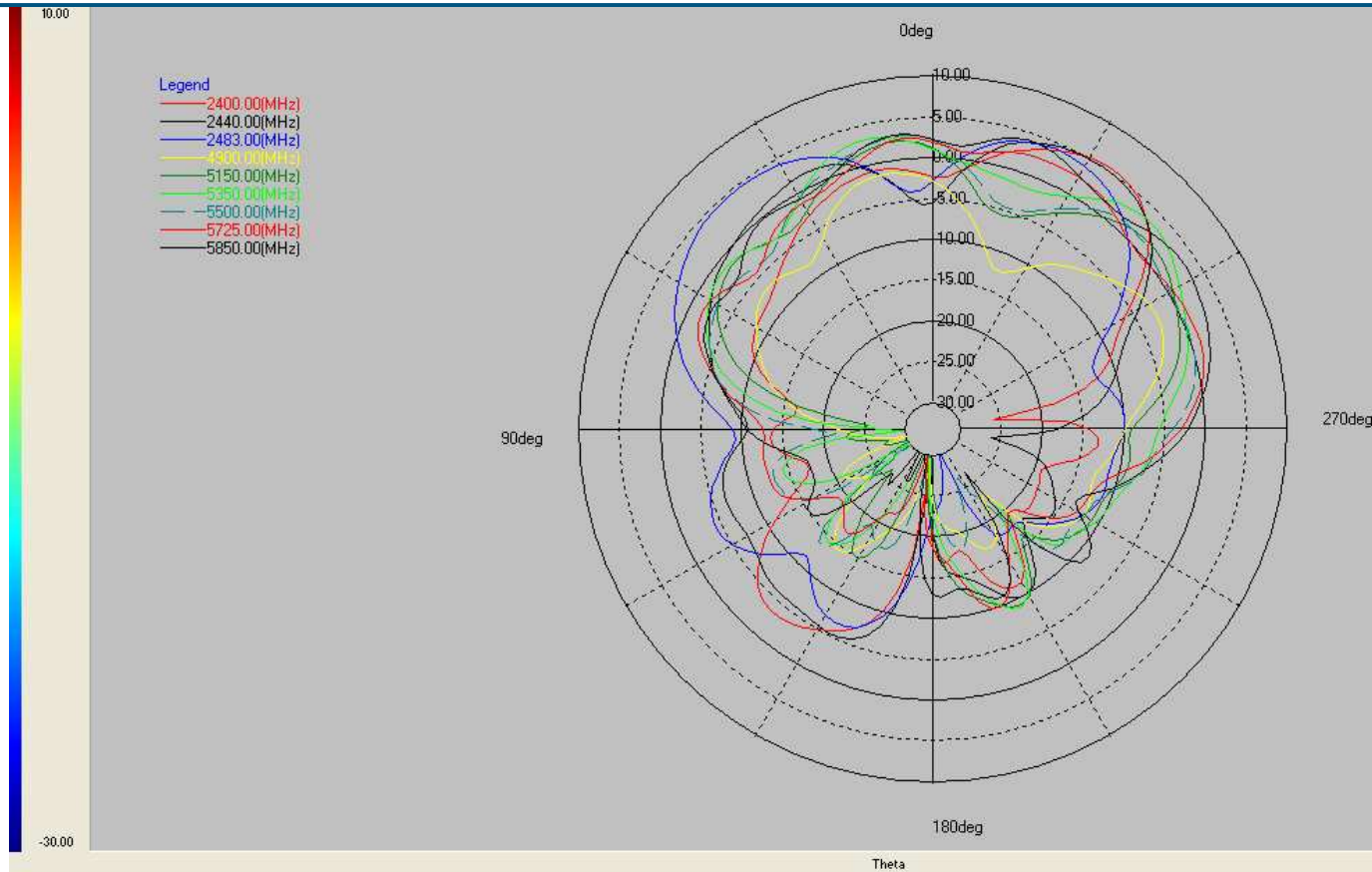
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	1.11	-12.00 deg	-33.29	171.00 d...	111.24 deg	34.40	-3.98	7.55	----	----	----	----
2440(MHz)	1.49	18.00 deg	-22.38	-177.00 ...	80.68 d...	23.87	-3.62	5.80	----	----	----	----
2483(MHz)	1.41	21.00 deg	-24.76	-129.00 ...	87.84 d...	26.17	-3.35	5.52	----	----	----	----
4900(MHz)	-1.05	39.00 deg	-41.40	150.00 d...	30.84 d...	40.35	-9.23	9.34	----	----	----	----
5150(MHz)	2.65	27.00 deg	-36.55	177.00 d...	30.32 d...	39.20	-5.31	9.87	----	----	----	----
5350(MHz)	3.10	21.00 deg	-33.64	168.00 d...	43.29 d...	36.74	-4.28	8.63	----	----	----	----
5500(MHz)	4.73	30.00 deg	-36.45	177.00 d...	31.66 deg	41.18	-2.96	10.49	----	----	----	----
5725(MHz)	1.75	27.00 deg	-41.07	-174.00 ...	34.90 d...	42.82	-4.61	9.03	----	----	----	----
5850(MHz)	2.76	21.00 deg	-31.15	-174.00 ...	27.23 d...	33.31	-3.98	7.87	----	----	----	----

# Antenna 1 Elevation 1 Horizontal Polarization



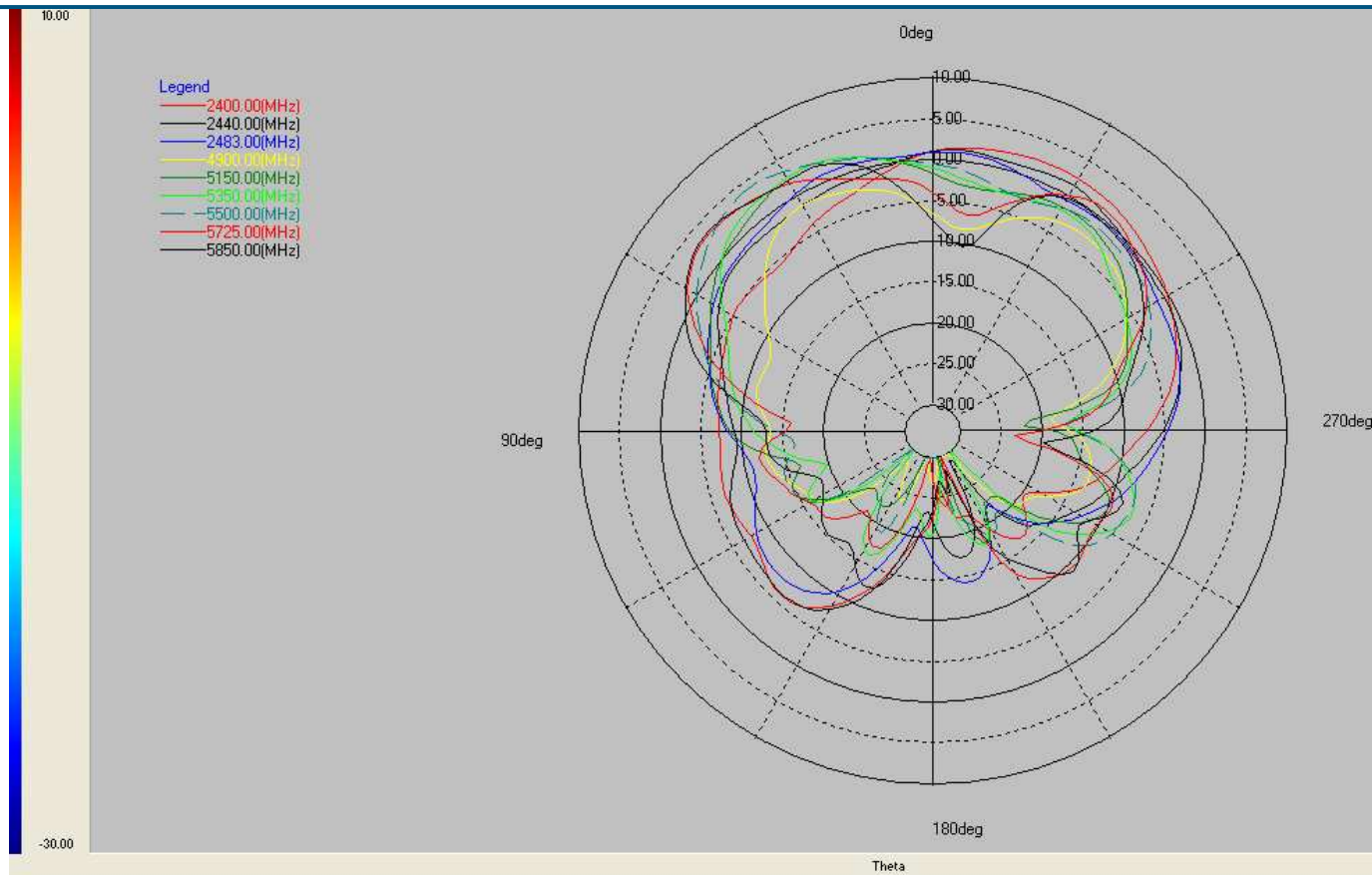
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-1.41	153.00 deg	-25.70	93.00 d...	20.64 d...	24.28	-6.71	5.79	----	----	----	----
2440(MHz)	-3.19	-138.00 deg	-22.67	-177.00 ...	36.57 d...	19.48	-8.36	4.39	----	----	----	----
2483(MHz)	-2.63	-9.00 deg	-22.89	-180.00 ...	49.16 deg	20.27	-7.15	4.86	----	----	----	----
4900(MHz)	-2.49	6.00 deg	-42.18	-144.00 ...	30.48 d...	39.70	-11.23	9.05	----	----	----	----
5150(MHz)	1.52	-6.00 deg	-42.80	-168.00 ...	28.57 d...	44.32	-6.73	10.42	----	----	----	----
5350(MHz)	1.54	-6.00 deg	-33.68	-108.00 ...	50.45 d...	35.22	-6.40	10.31	----	----	----	----
5500(MHz)	2.95	-9.00 deg	-33.79	-171.00 ...	58.40 d...	36.74	-4.73	11.80	----	----	----	----
5725(MHz)	3.67	-15.00 deg	-42.43	-156.00 ...	36.78 d...	46.10	-4.74	11.19	----	----	----	----
5850(MHz)	3.83	-15.00 deg	-35.21	-153.00 ...	40.56 d...	39.04	-4.51	9.26	----	----	----	----

# Antenna 1 Elevation 2 Vertical Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	5.26	-36.00 deg	-25.87	174.00 d...	30.77 d...	31.13	-3.64	7.68	....	....	....	....
2440(MHz)	4.85	-33.00 deg	-32.18	177.00 d...	36.52 d...	37.03	-2.55	7.81	....	....	....	....
2483(MHz)	4.55	42.00 deg	-33.74	-162.00 ...	45.69 d...	38.29	-1.70	8.79	....	....	....	....
4900(MHz)	-1.65	12.00 deg	-31.44	174.00 d...	30.39 d...	29.79	-8.51	7.81	....	....	....	....
5150(MHz)	2.13	9.00 deg	-42.06	165.00 d...	29.15 deg	44.19	-4.40	10.06	....	....	....	....
5350(MHz)	3.38	-48.00 deg	-42.47	165.00 d...	33.74 d...	45.85	-2.97	10.52	....	....	....	....
5500(MHz)	2.82	6.00 deg	-38.56	174.00 d...	33.77 d...	41.38	-3.73	9.62	....	....	....	....
5725(MHz)	2.38	6.00 deg	-33.30	168.00 d...	103.43 d...	35.69	-2.96	8.72	....	....	....	....
5850(MHz)	3.84	-18.00 dea	-37.87	147.00 d...	98.12 dea	41.71	-1.83	10.14	....	....	....	....

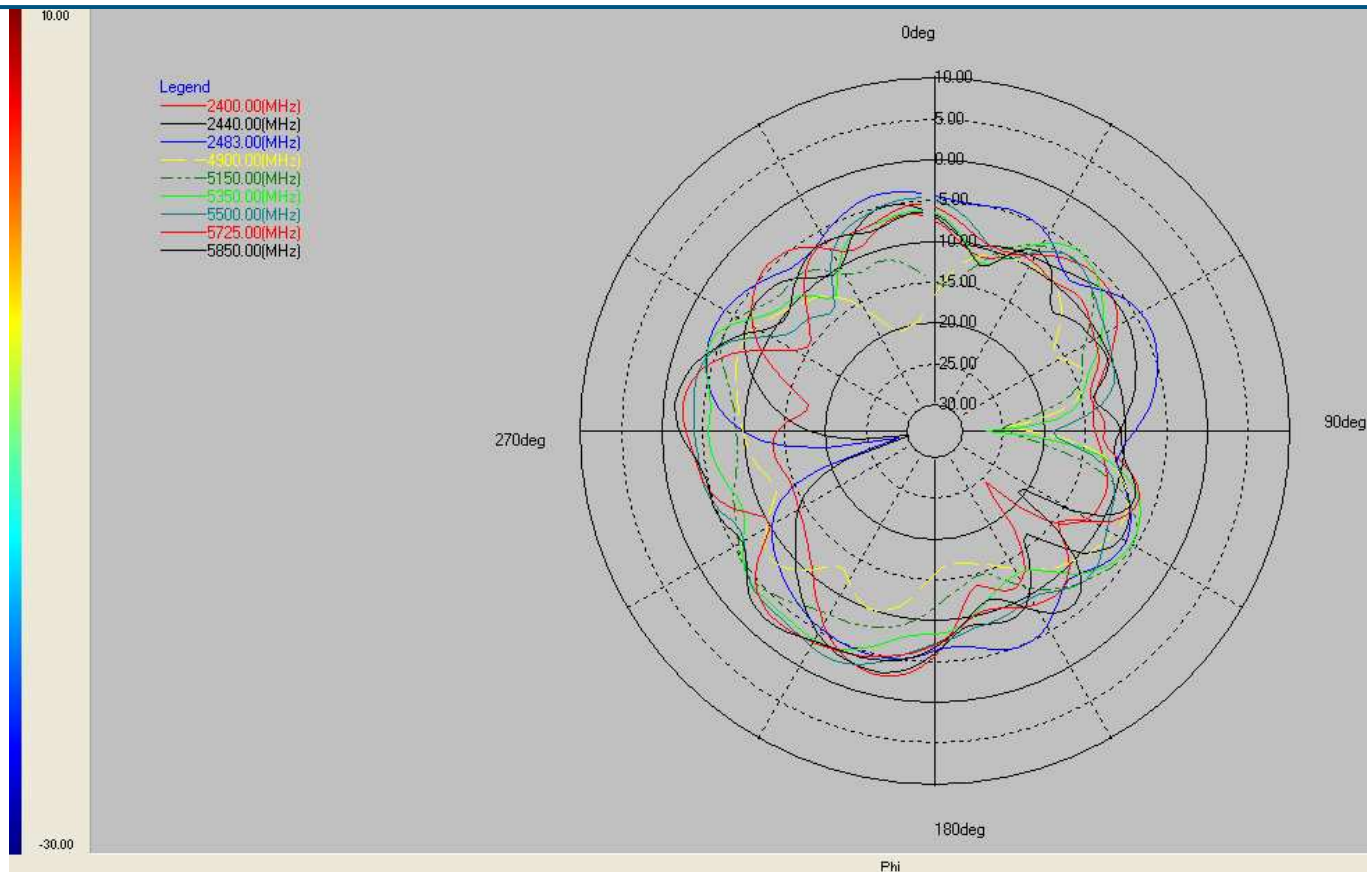
# Antenna 1 Elevation 2 Horizontal Polarization



- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

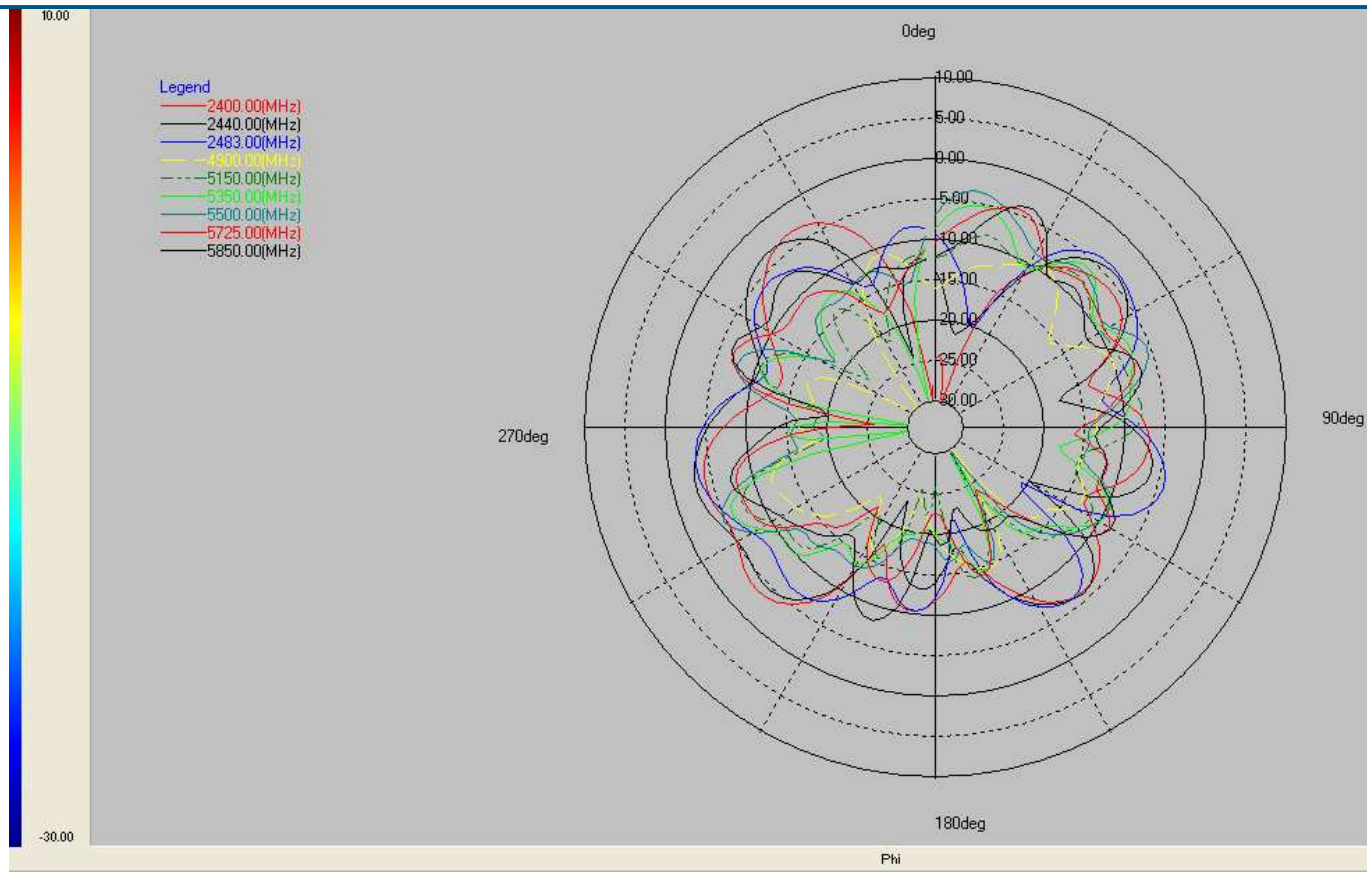
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	2.35	-27.00 deg	-26.41	-174.00 ...	7193 deg	28.76	-3.65	7.78	....	....	....	....
2440(MHz)	1.21	-30.00 deg	-29.27	-150.00 ...	110.07 d...	30.48	-3.63	7.68	....	....	....	....
2483(MHz)	0.85	-6.00 deg	-22.23	-144.00 ...	133.32 d...	23.09	-3.66	6.85	....	....	....	....
4900(MHz)	-1.54	30.00 deg	-36.05	-165.00 ...	38.38 d...	34.50	-8.29	9.78	....	....	....	....
5150(MHz)	2.46	27.00 deg	-45.78	-171.00 ...	47.74 d...	48.24	-4.68	11.28	....	....	....	....
5350(MHz)	2.41	27.00 deg	-40.63	-141.00 ...	47.76 d...	43.04	-4.71	9.41	....	....	....	....
5500(MHz)	3.85	36.00 deg	-35.25	-177.00 ...	44.43 d...	39.10	-3.48	10.89	....	....	....	....
5725(MHz)	3.11	48.00 deg	-36.08	-162.00 ...	40.14 deg	39.19	-4.07	9.28	....	....	....	....
5850(MHz)	3.42	48.00 dea	-28.30	-162.00 ...	47.71 dea	31.72	-3.96	8.17	....	....	....	....

# Antenna 1 Azimuth Vertical Polarization



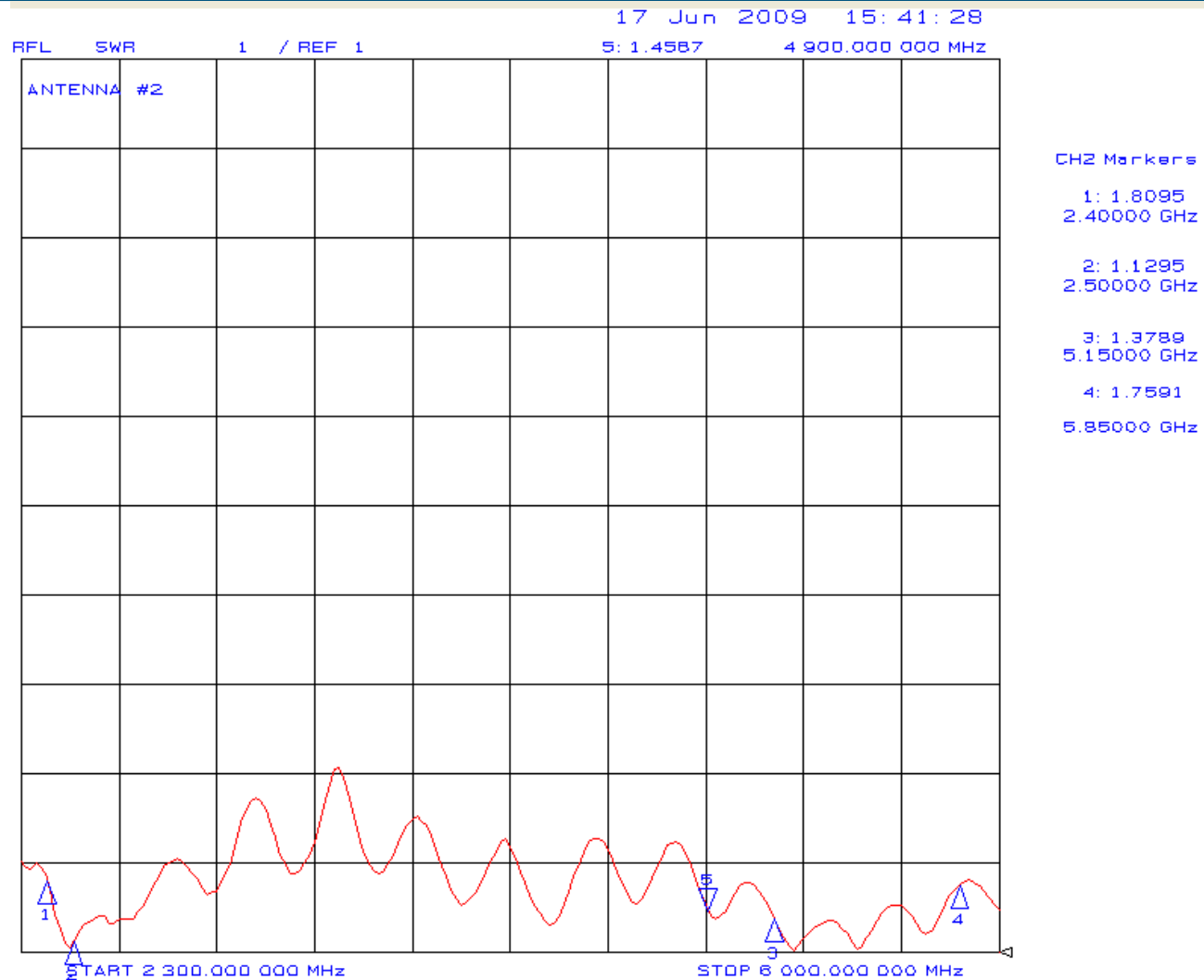
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-2.71	195.00 deg	-24.56	135.00 d...	28.63 d...	21.85	-8.66	4.18	....	....	....	....
2440(MHz)	-3.02	195.00 deg	-41.80	258.00 ...	34.51 deg	38.78	-8.04	5.39	....	....	....	....
2483(MHz)	-3.56	294.00 deg	-28.93	258.00 ...	39.87 d...	25.37	-6.16	3.82	....	....	....	....
4900(MHz)	-7.42	294.00 deg	-24.53	87.00 d...	46.79 d...	17.10	-11.38	3.71	....	....	....	....
5150(MHz)	-4.52	231.00 deg	-24.96	87.00 d...	44.08 d...	20.44	-8.67	4.35	....	....	....	....
5350(MHz)	-3.81	291.00 deg	-27.14	90.00 d...	42.88 d...	23.33	-7.34	3.93	....	....	....	....
5500(MHz)	-2.68	204.00 deg	-18.90	90.00 d...	48.94 d...	16.22	-6.71	3.43	....	....	....	....
5725(MHz)	-2.45	276.00 deg	-14.78	303.00 ...	35.73 d...	12.33	-7.14	3.21	....	....	....	....
5850(MHz)	-1.45	276.00 deq	-20.78	126.00 d...	29.13 deq	19.33	-6.62	3.56	....	....	....	....

# Antenna 1 Azimuth Horizontal Polarization



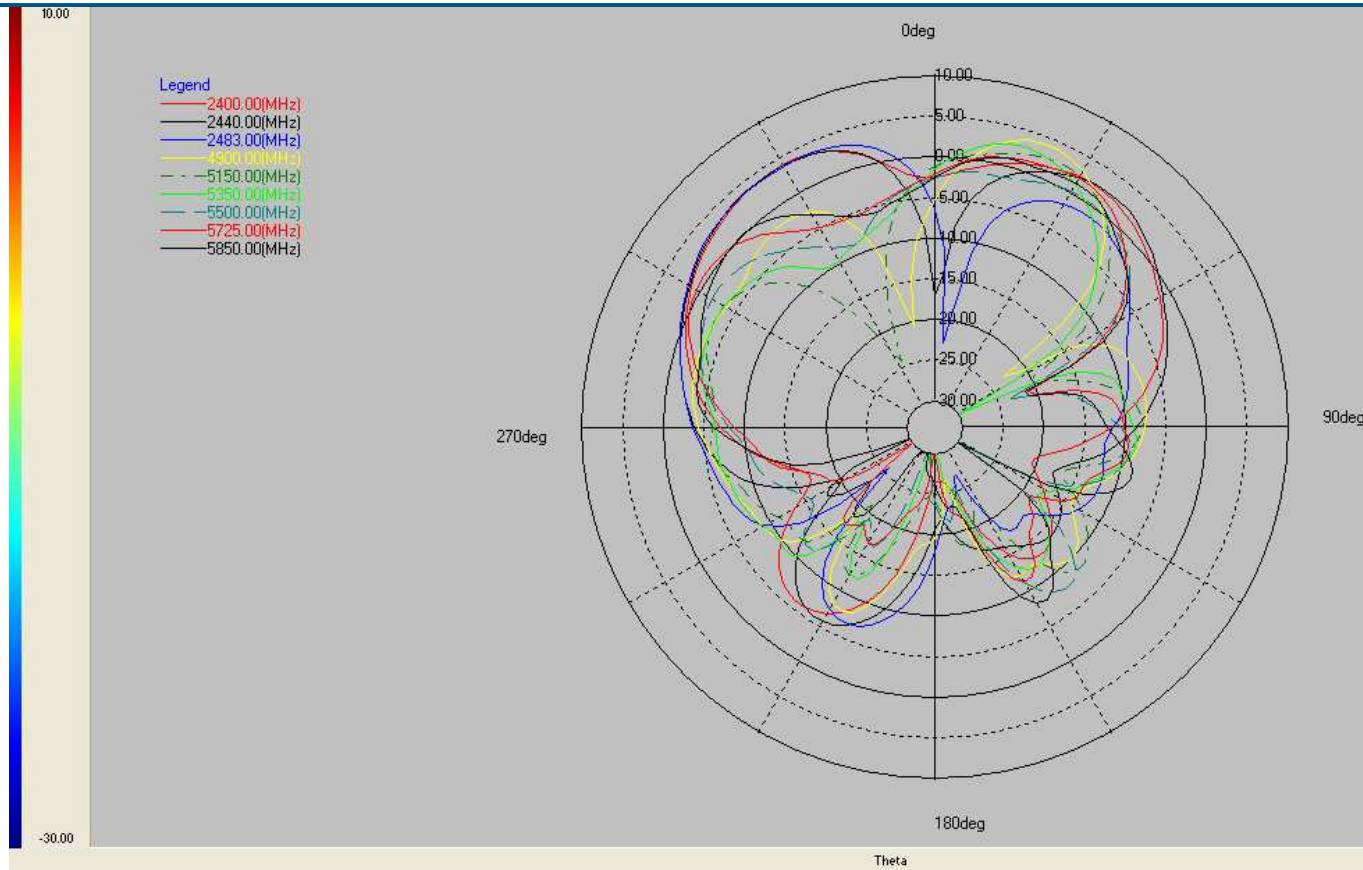
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-3.43	324.00 deg	-42.54	354.00 ...	27.73 d...	39.11	-8.04	6.88	----	----	----	----
2440(MHz)	-3.04	255.00 deg	-24.47	342.00 ...	53.88 d...	21.43	-7.78	5.46	----	----	----	----
2483(MHz)	-3.53	261.00 deg	-21.81	171.00 d...	32.05 d...	18.28	-7.84	4.30	----	----	----	----
4900(MHz)	-9.52	36.00 deg	-38.07	303.00 ...	28.16 deg	28.55	-14.65	5.45	----	----	----	----
5150(MHz)	-7.67	45.00 deg	-26.10	190.00 d...	86.27 d...	18.43	-12.20	4.71	----	----	----	----
5350(MHz)	-5.47	12.00 deg	-41.57	345.00 ...	21.81 deg	36.10	-11.23	6.28	----	----	----	----
5500(MHz)	-3.86	9.00 deg	-31.62	147.00 d...	23.25 d...	27.76	-10.18	4.78	----	----	----	----
5725(MHz)	-4.52	21.00 deg	-25.94	273.00 ...	22.53 d...	21.42	-10.74	4.88	----	----	----	----
5850(MHz)	-3.91	24.00 deg	-23.08	168.00 d...	17.12 deg	19.17	-10.24	4.33	----	----	----	----

# Antenna 2 VSWR





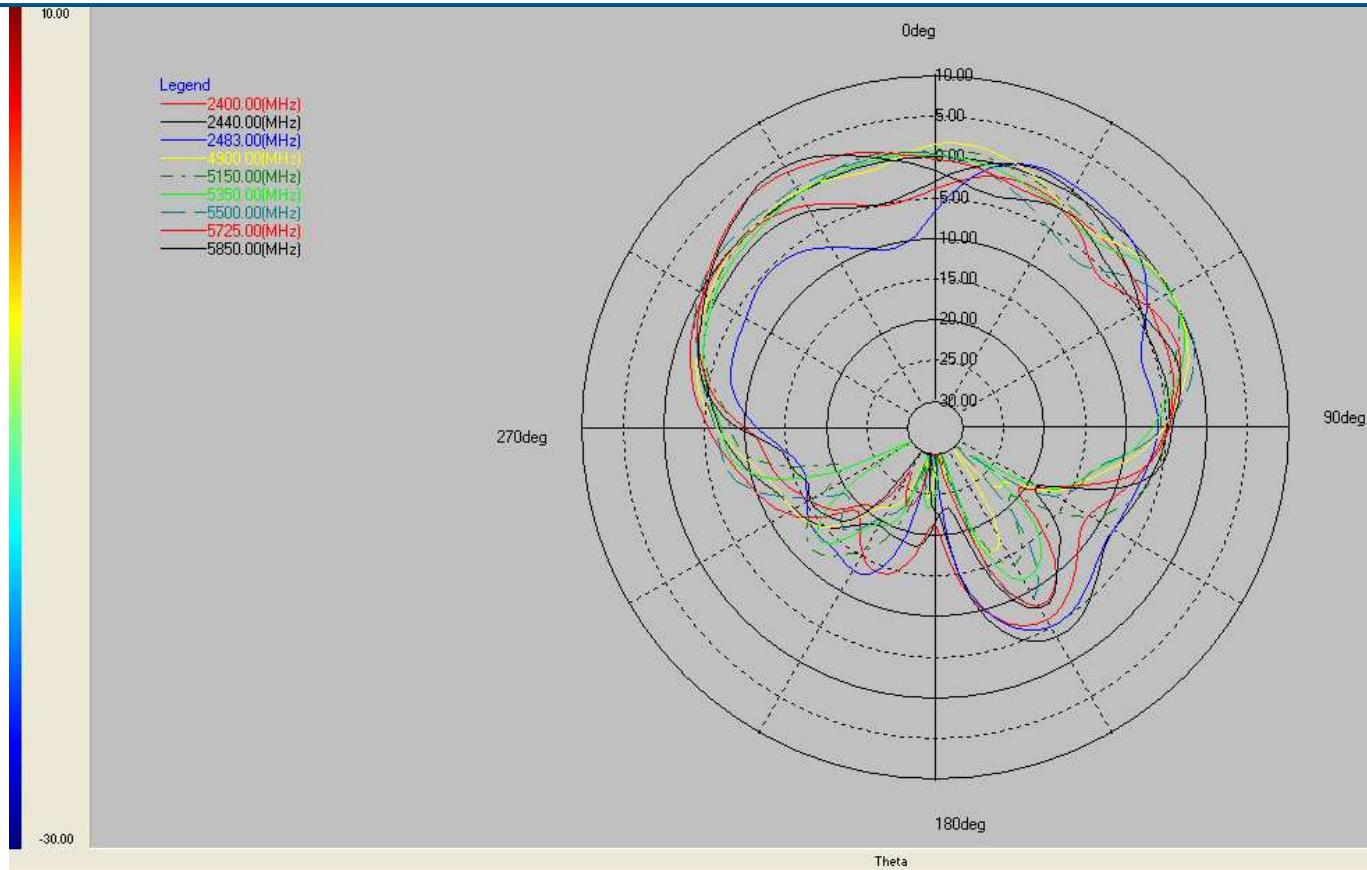
# Antenna 2 Elevation 1 Vertical Polarization



- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

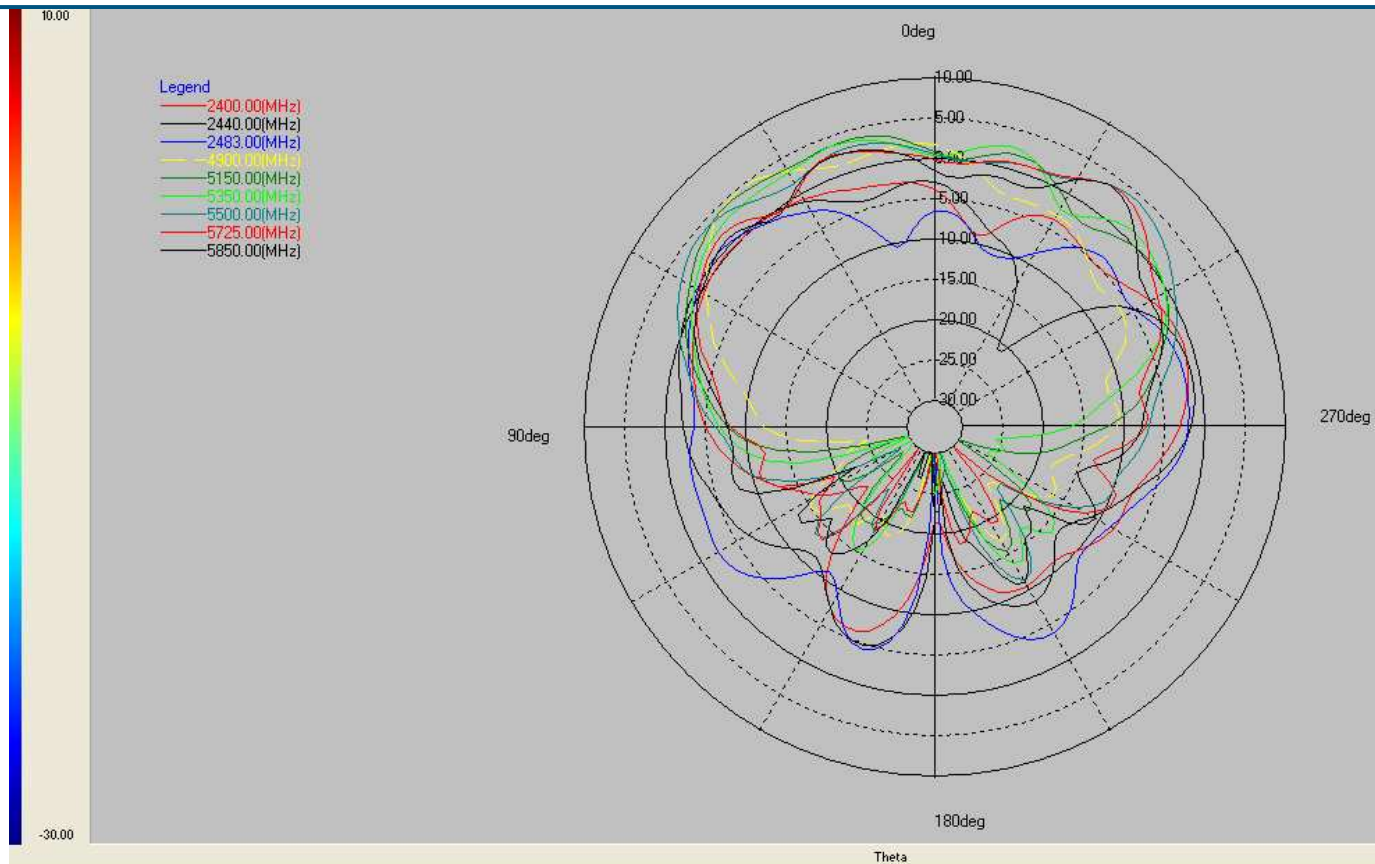
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	3.91	-33.00 deg	-26.67	177.00 d...	47.46 d...	30.58	-2.30	9.02	---	---	---	---
2440(MHz)	3.82	-33.00 deg	-21.86	177.00 d...	50.08 d...	25.69	-2.23	7.79	---	---	---	---
2483(MHz)	3.72	-30.00 deg	-26.95	156.00 d...	55.58 d...	30.67	-3.06	8.10	---	---	---	---
4900(MHz)	3.97	21.00 deg	-26.72	168.00 d...	26.29 d...	30.69	-4.70	6.71	---	---	---	---
5150(MHz)	2.57	27.00 deg	-24.71	-174.00 ...	36.23 d...	27.27	-5.71	7.42	---	---	---	---
5350(MHz)	2.77	18.00 deg	-36.79	177.00 d...	30.67 d...	39.56	-5.66	8.65	---	---	---	---
5500(MHz)	0.20	33.00 deg	-55.19	-168.00 ...	52.06 d...	55.39	-6.15	9.63	---	---	---	---
5725(MHz)	1.98	30.00 deg	-33.42	-126.00 ...	41.13 deg	35.40	-4.80	8.99	---	---	---	---
5850(MHz)	1.28	30.00 deg	-45.20	-162.00 ...	42.37 d...	46.48	-5.01	10.51	---	---	---	---

# Antenna 2 Elevation 1 Horizontal Polarization



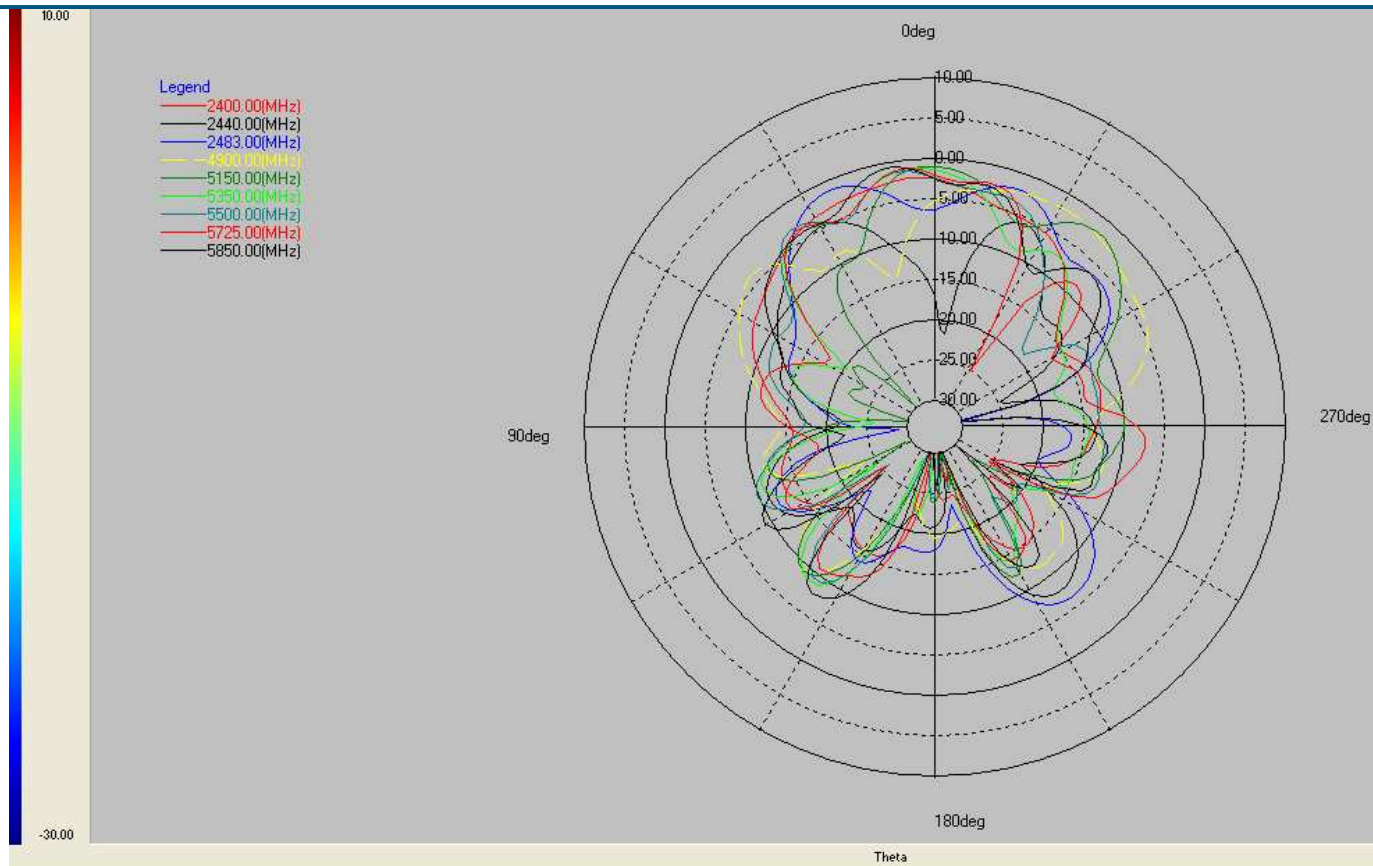
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.20	-48.00 deg	-21.51	-180.00 ...	56.06 d...	21.30	-4.72	5.82	----	----	----	----
2440(MHz)	0.71	21.00 deg	-22.52	177.00 d...	44.25 d...	23.23	-4.59	6.20	----	----	----	----
2483(MHz)	1.08	24.00 deg	-35.18	-174.00 ...	46.07 d...	36.26	-5.71	7.11	----	----	----	----
4900(MHz)	1.68	6.00 deg	-33.22	174.00 d...	87.67 d...	34.90	-3.62	10.28	----	----	----	----
5150(MHz)	0.94	-15.00 deg	-37.99	174.00 d...	135.27 d...	38.93	-3.74	9.90	----	----	----	----
5350(MHz)	0.28	-9.00 deg	-40.20	168.00 d...	98.32 d...	40.48	-4.23	9.96	----	----	----	----
5500(MHz)	0.70	-27.00 deg	-41.70	-180.00 ...	87.05 d...	42.39	-3.93	11.20	----	----	----	----
5725(MHz)	3.03	-36.00 deg	-33.24	177.00 d...	53.37 d...	36.27	-3.54	9.92	----	----	----	----
5850(MHz)	3.68	-30.00 deg	-45.01	-168.00 ...	38.82 d...	48.69	-3.67	10.22	----	----	----	----

# Antenna 2 Elevation 2 Vertical Polarization



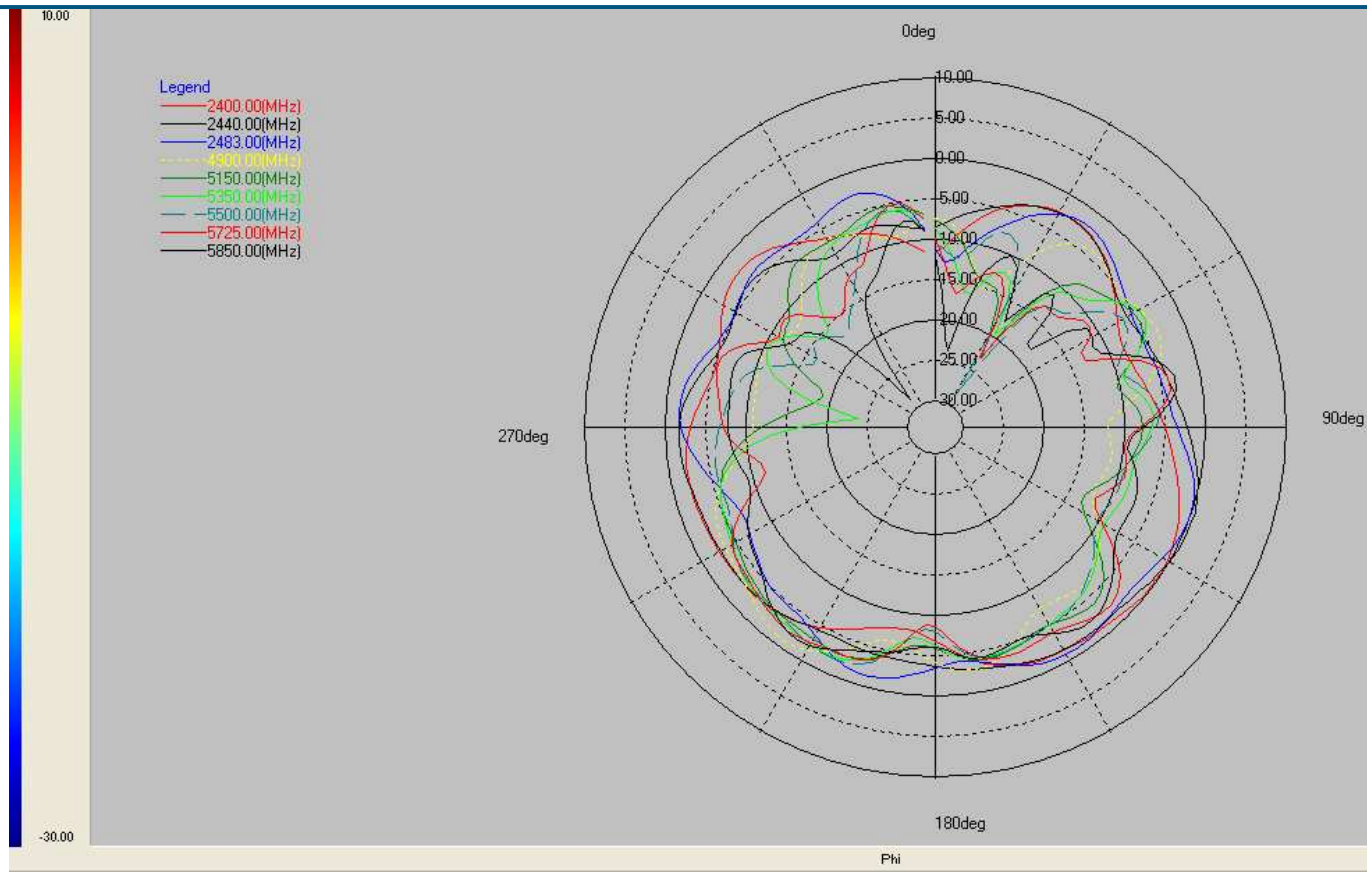
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.02	51.00 deg	-22.27	132.00 d...	71.70 deg	22.25	-4.67	5.71	----	----	----	----
2440(MHz)	0.64	60.00 deg	-31.23	-177.00 ...	65.15 deg	31.87	-4.28	5.89	----	----	----	----
2483(MHz)	0.32	54.00 deg	-30.38	-180.00 ...	43.50 d...	31.31	-4.17	4.93	----	----	----	----
4900(MHz)	4.55	39.00 deg	-35.55	-171.00 ...	29.22 d...	40.10	-3.83	10.31	----	----	----	----
5150(MHz)	4.18	42.00 deg	-36.52	174.00 d...	60.06 d...	40.70	-2.14	11.79	----	----	----	----
5350(MHz)	3.52	18.00 deg	-40.66	126.00 d...	58.63 d...	44.18	-2.43	12.36	----	----	----	----
5500(MHz)	4.07	51.00 deg	-44.54	171.00 d...	63.31 deg	48.61	-1.54	13.53	----	----	----	----
5725(MHz)	3.63	-39.00 deg	-33.96	-138.00 ...	34.49 d...	37.59	-2.61	10.48	----	----	----	----
5850(MHz)	3.48	-36.00 deg	-40.18	171.00 d...	19.83 deg	43.66	-3.27	9.33	----	----	----	----

# Antenna 2 Elevation 2 Horizontal Polarization



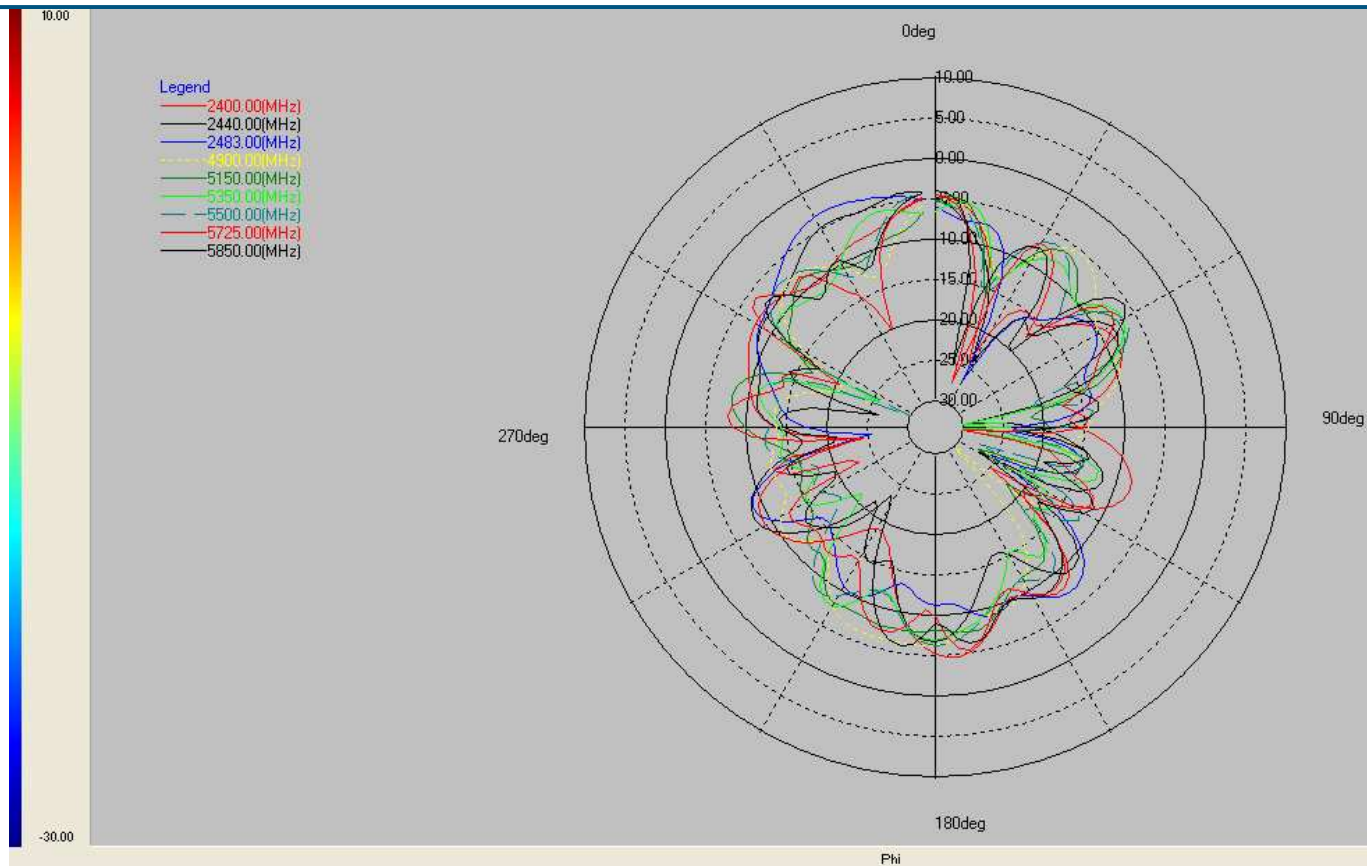
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-2.58	6.00 deg	-29.41	177.00 d...	69.70 d...	26.83	-9.07	6.75	----	----	----	----
2440(MHz)	-4.96	30.00 deg	-30.37	-165.00 ...	29.02 d...	25.41	-11.69	5.49	----	----	----	----
2483(MHz)	-1.38	24.00 deg	-30.40	-81.00 d...	26.48 d...	29.02	-8.42	6.86	----	----	----	----
4900(MHz)	-2.04	-33.00 deg	-24.41	162.00 d...	66.85 d...	22.37	-8.01	6.09	----	----	----	----
5150(MHz)	-1.31	3.00 deg	-36.62	168.00 d...	29.64 d...	35.31	-8.83	9.01	----	----	----	----
5350(MHz)	-1.25	6.00 deg	-45.13	-165.00 ...	30.58 d...	43.88	-9.52	8.70	----	----	----	----
5500(MHz)	-1.56	9.00 deg	-39.31	-174.00 ...	42.84 d...	37.75	-9.09	7.92	----	----	----	----
5725(MHz)	-1.31	6.00 deg	-41.11	174.00 d...	39.99 d...	39.80	-9.00	8.10	----	----	----	----
5850(MHz)	-0.89	9.00 deg	-57.61	174.00 d...	40.16 deg	56.72	-8.53	9.55	----	----	----	----

# Antenna 2 Azimuth Vertical Polarization



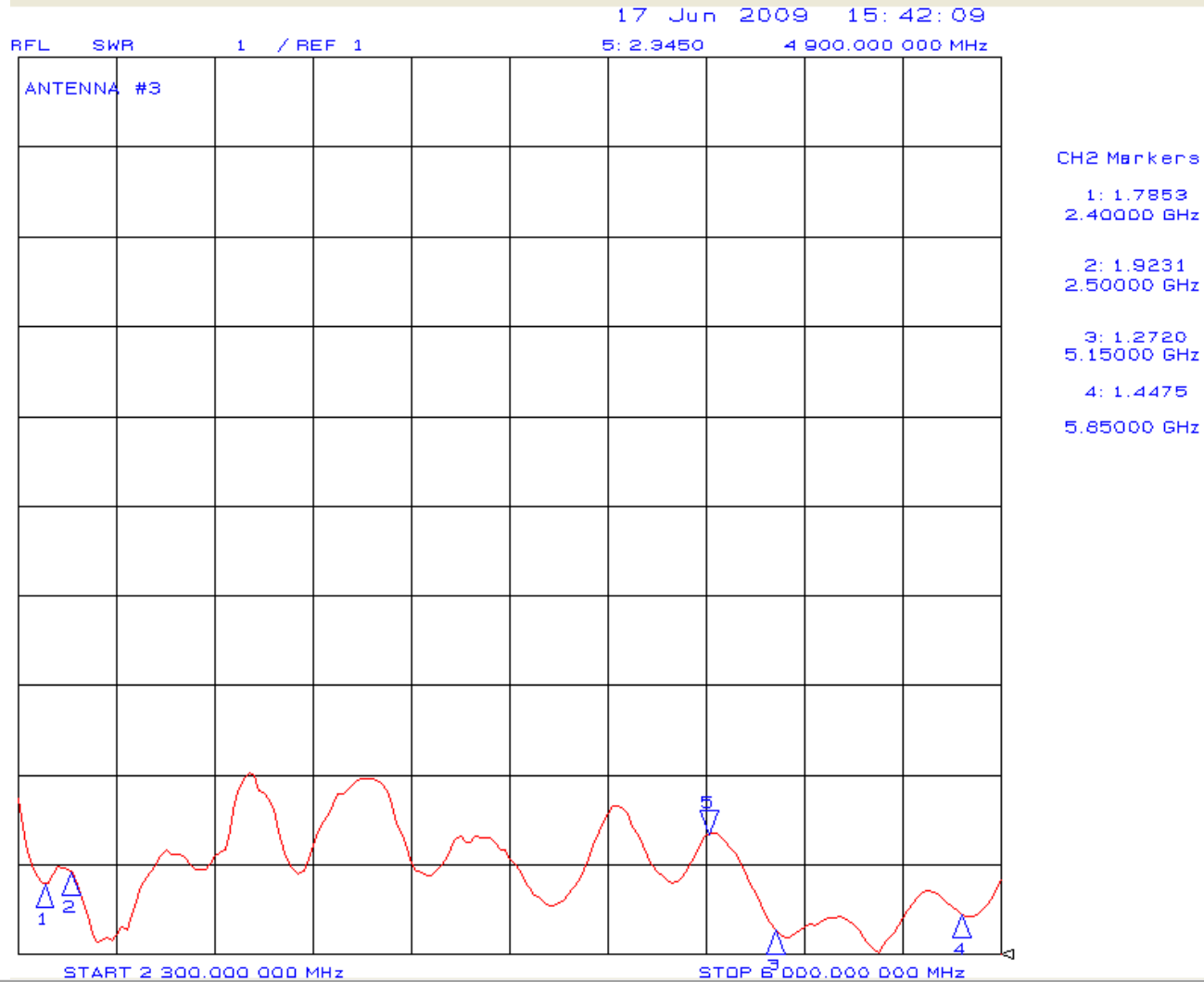
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.22	123.00 deg	-11.72	0.00 deg	66.50 d...	11.50	-3.81	2.72	----	----	----	----
2440(MHz)	0.38	111.00 deg	-8.87	357.00 ...	74.63 d...	9.25	-3.32	2.27	----	----	----	----
2483(MHz)	-0.08	111.00 deg	-12.95	3.00 deg	72.22 d...	12.87	-3.43	2.45	----	----	----	----
4900(MHz)	-1.06	216.00 deg	-15.37	18.00 deg	45.27 d...	14.31	-6.22	3.39	----	----	----	----
5150(MHz)	-2.94	204.00 deg	-23.15	33.00 d...	67.69 d...	20.21	-6.76	4.29	----	----	----	----
5350(MHz)	-2.31	207.00 deg	-24.01	276.00 ...	58.35 d...	21.70	-6.82	4.48	----	----	----	----
5500(MHz)	-2.10	204.00 deg	-28.58	33.00 d...	51.52 deg	26.48	-6.91	4.42	----	----	----	----
5725(MHz)	-2.27	216.00 deg	-23.25	33.00 d...	52.02 d...	20.97	-6.65	4.32	----	----	----	----
5850(MHz)	-2.12	213.00 deg	-28.87	318.00 d...	38.04 d...	26.76	-6.98	5.51	----	----	----	----

# Antenna 2 Azimuth Horizontal Polarization

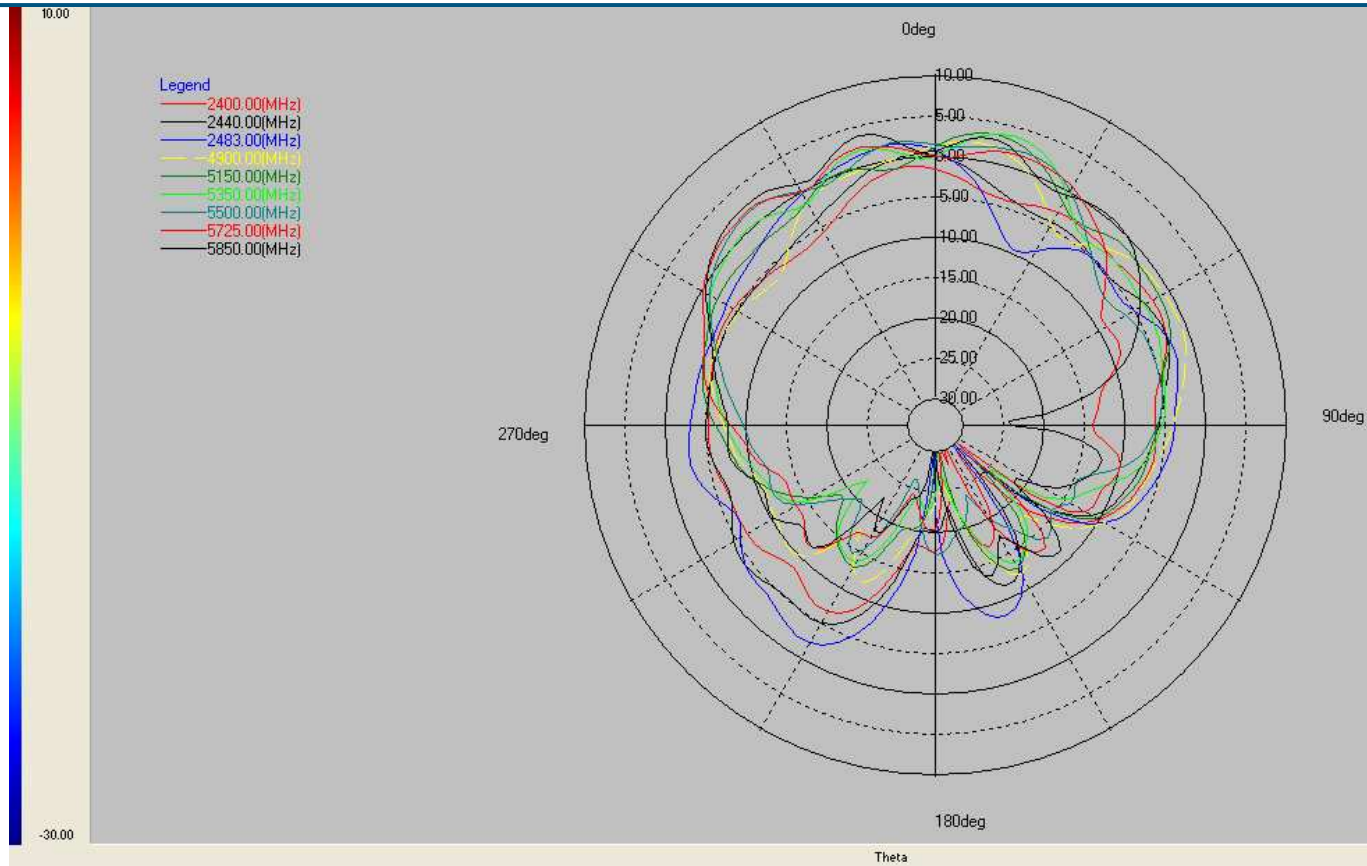


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-4.97	174.00 deg	-24.96	126.00 d...	23.37 d...	19.99	-9.76	4.42	----	----	----	----
2440(MHz)	-4.11	354.00 deg	-29.26	84.00 d...	----	25.15	-9.96	5.33	----	----	----	----
2483(MHz)	-3.37	333.00 deg	-26.71	30.00 d...	----	23.34	-9.46	5.10	----	----	----	----
4900(MHz)	-5.22	3.00 deg	-32.95	135.00 d...	----	27.73	-9.88	4.79	----	----	----	----
5150(MHz)	-4.90	6.00 deg	-35.01	96.00 d...	----	30.11	-10.21	4.96	----	----	----	----
5350(MHz)	-5.42	9.00 deg	-30.28	93.00 d...	----	24.85	-10.49	5.28	----	----	----	----
5500(MHz)	-4.80	354.00 deg	-31.11	294.00 ...	----	26.31	-10.17	4.85	----	----	----	----
5725(MHz)	-4.67	0.00 deg	-33.59	96.00 d...	----	28.32	-10.29	4.91	----	----	----	----
5850(MHz)	-4.24	0.00 deg	-26.18	282.00 ...	----	21.95	-10.42	4.91	----	----	----	----

# Antenna 3 VSWR



# Antenna 3 Elevation 1 Vertical Polarization

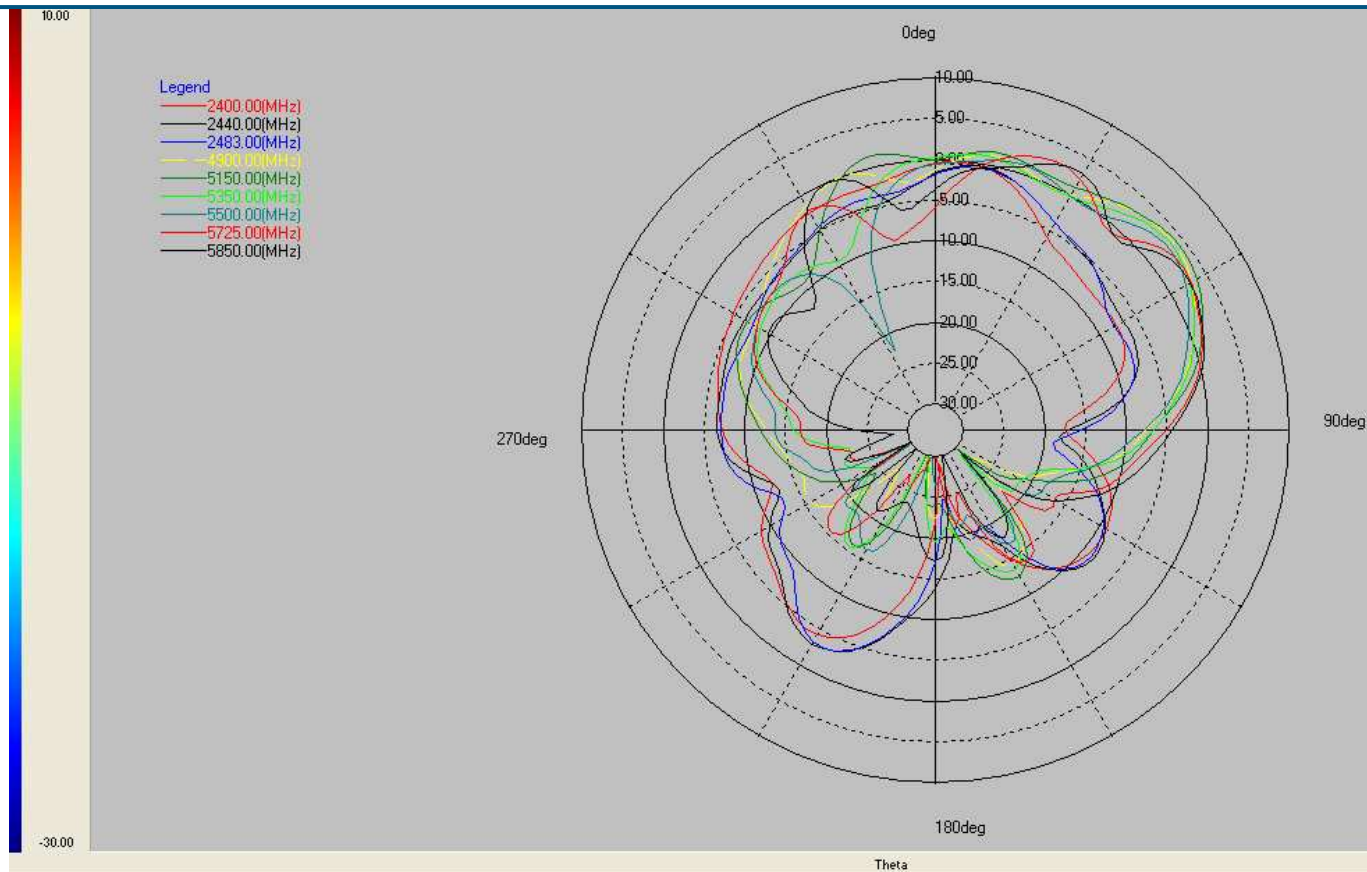


- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-124	-6.00 deg	-28.96	141.00 d...	37.23 d...	27.72	-5.73	6.30	----	----	----	----
2440(MHz)	0.12	-6.00 deg	-37.94	135.00 d...	36.17 deg	38.06	-5.28	6.48	----	----	----	----
2483(MHz)	1.70	-9.00 deg	-34.93	138.00 d...	42.06 d...	36.63	-3.99	6.89	----	----	----	----
4900(MHz)	1.99	9.00 deg	-25.93	174.00 d...	46.98 d...	27.92	-4.38	7.00	----	----	----	----
5150(MHz)	3.38	12.00 deg	-41.00	174.00 d...	26.67 d...	44.38	-3.83	8.95	----	----	----	----
5350(MHz)	3.57	15.00 deg	-27.36	174.00 d...	24.88 d...	30.93	-3.64	8.61	----	----	----	----
5500(MHz)	1.97	18.00 deg	-26.36	-162.00 ...	91.82 deg	28.32	-3.81	8.21	----	----	----	----
5725(MHz)	2.12	-15.00 deg	-42.05	129.00 d...	97.96 d...	44.16	-3.78	9.77	----	----	----	----
5850(MHz)	3.54	-15.00 deg	-38.73	-177.00 ...	52.40 d...	42.27	-3.06	9.57	----	----	----	----



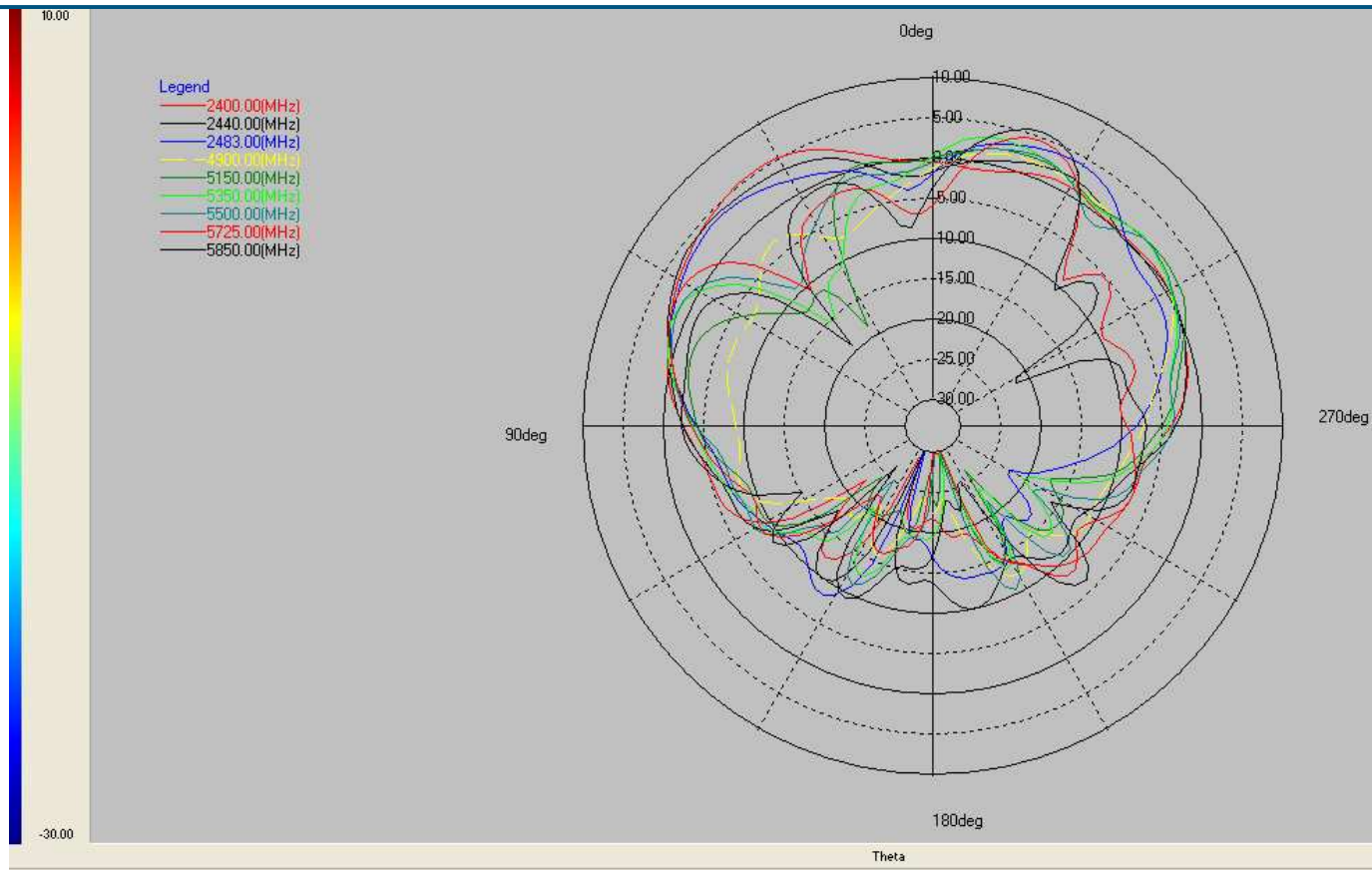
# Antenna 3 Elevation 1 Horizontal Polarization



- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.34	6.00 deg	-29.17	174.00 d...	63.11 deg	28.84	-6.18	6.04	----	----	----	----
2440(MHz)	-0.58	9.00 deg	-21.40	168.00 d...	33.64 d...	20.82	-6.43	4.86	----	----	----	----
2483(MHz)	-0.80	9.00 deg	-24.86	174.00 d...	39.01 deg	24.07	-6.62	5.39	----	----	----	----
4900(MHz)	3.83	51.00 deg	-33.05	-165.00 ...	34.35 d...	36.88	-3.70	10.00	----	----	----	----
5150(MHz)	4.18	54.00 deg	-43.57	132.00 d...	39.61 deg	47.75	-3.16	10.52	----	----	----	----
5350(MHz)	3.44	51.00 deg	-35.33	-169.00 ...	34.95 d...	39.36	-4.31	9.70	----	----	----	----
5500(MHz)	2.96	54.00 deg	-45.92	-171.00 ...	31.87 deg	48.88	-4.85	9.96	----	----	----	----
5725(MHz)	2.99	57.00 deg	-41.17	-117.00 ...	31.25 deg	44.16	-4.32	10.66	----	----	----	----
5850(MHz)	2.96	30.00 deg	-47.91	-117.00 ...	23.97 d...	50.87	-4.21	11.12	----	----	----	----

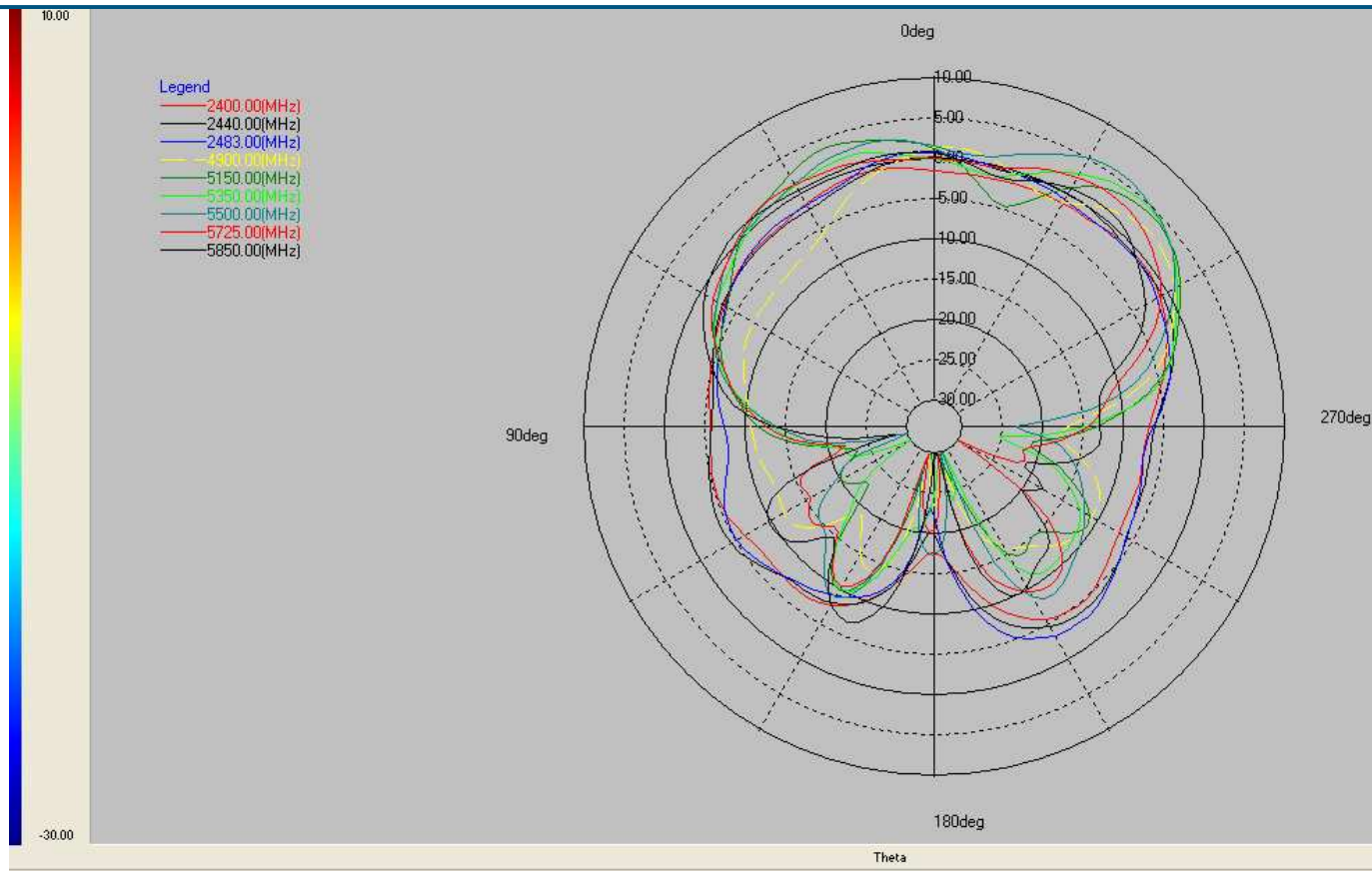
# Antenna 3 Elevation 2 Vertical Polarization



- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	5.13	33.00 deg	-29.16	159.00 d...	48.16 deg	34.29	-1.23	8.74	----	----	----	----
2440(MHz)	4.04	48.00 deg	-30.15	159.00 d...	55.01 deg	34.19	-1.49	6.98	----	----	----	----
2483(MHz)	3.88	-30.00 deg	-37.80	162.00 d...	36.74 d...	41.68	-1.89	8.45	----	----	----	----
4900(MHz)	1.65	-21.00 deg	-24.33	174.00 d...	67.20 d...	25.98	-4.55	7.46	----	----	----	----
5150(MHz)	2.20	-21.00 deg	-37.85	-165.00 ...	92.25 d...	40.05	-3.58	9.50	----	----	----	----
5350(MHz)	3.14	-12.00 deg	-32.75	-165.00 ...	63.28 d...	35.89	-3.17	8.50	----	----	----	----
5500(MHz)	2.44	-21.00 deg	-31.57	-168.00 ...	33.78 d...	34.01	-3.19	8.60	----	----	----	----
5725(MHz)	4.36	-21.00 deg	-49.76	-174.00 ...	20.66 d...	54.12	-3.97	10.10	----	----	----	----
5850(MHz)	5.52	-21.00 deg	-26.83	138.00 d...	20.26 d...	32.35	-4.00	7.42	----	----	----	----

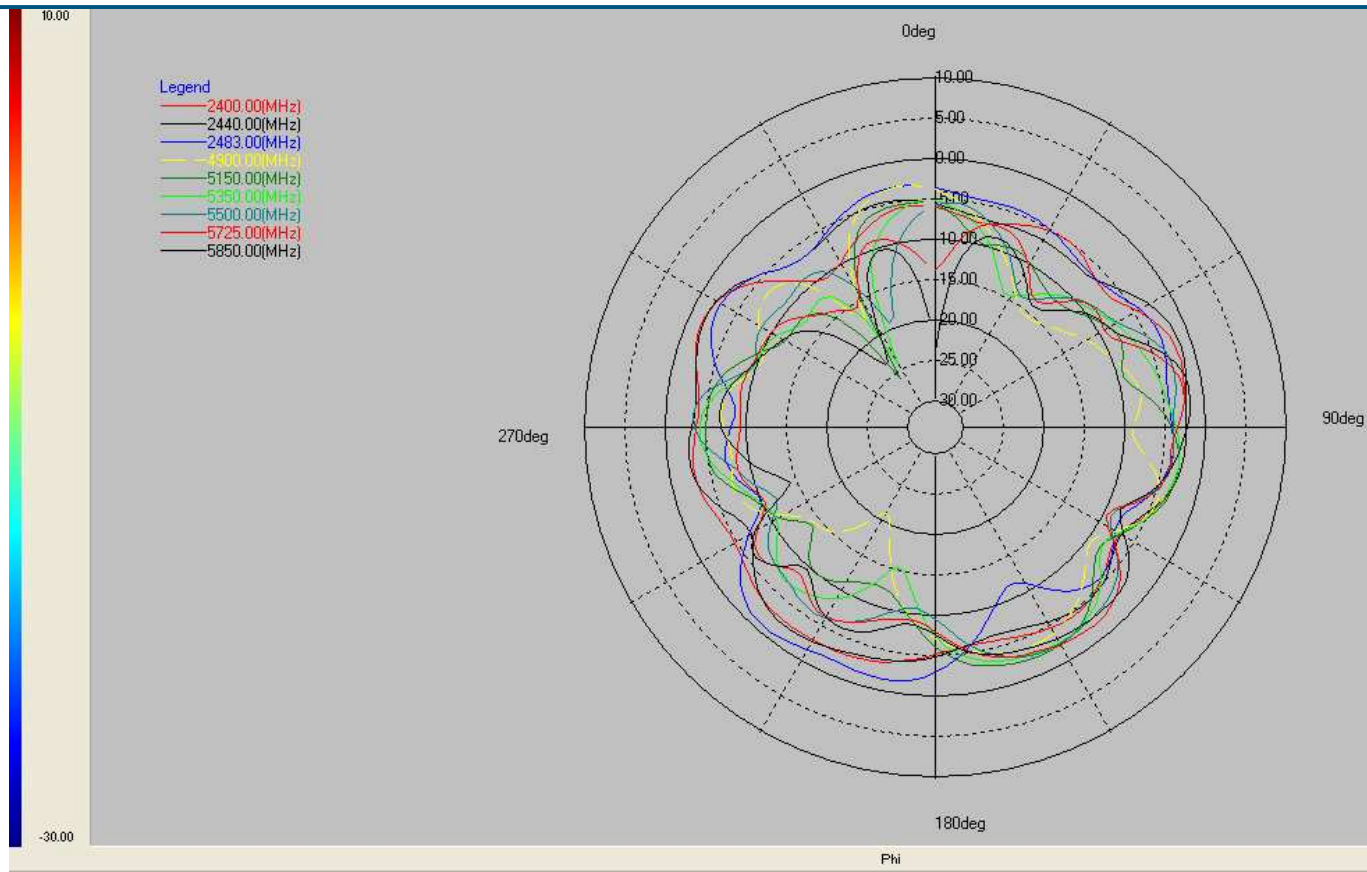
# Antenna 3 Elevation 2 Horizontal Polarization



- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.66	-51.00 deg	-17.82	-180.00 ...	136.80 d...	17.16	-4.12	4.21	----	----	----	----
2440(MHz)	-0.08	3.00 deg	-20.14	177.00 d...	133.18 d...	20.06	-3.59	4.56	----	----	----	----
2483(MHz)	0.68	3.00 deg	-23.31	177.00 d...	115.70 d...	23.99	-3.64	4.95	----	----	----	----
4900(MHz)	2.47	-48.00 deg	-31.97	171.00 d...	3138 deg	34.43	-4.73	8.17	----	----	----	----
5150(MHz)	4.09	-45.00 deg	-44.42	-171.00 ...	3120 deg	48.52	-2.61	10.99	----	----	----	----
5350(MHz)	4.54	-45.00 deg	-30.55	120.00 d...	33.60 d...	35.09	-2.71	10.20	----	----	----	----
5500(MHz)	5.55	-36.00 deg	-32.71	105.00 d...	35.33 d...	38.26	-1.82	9.86	----	----	----	----
5725(MHz)	2.68	-33.00 deg	-36.81	168.00 d...	43.95 d...	39.50	-3.42	9.52	----	----	----	----
5850(MHz)	0.95	-36.00 deg	-34.37	-174.00 ...	120.91 d...	35.32	-3.32	8.85	----	----	----	----

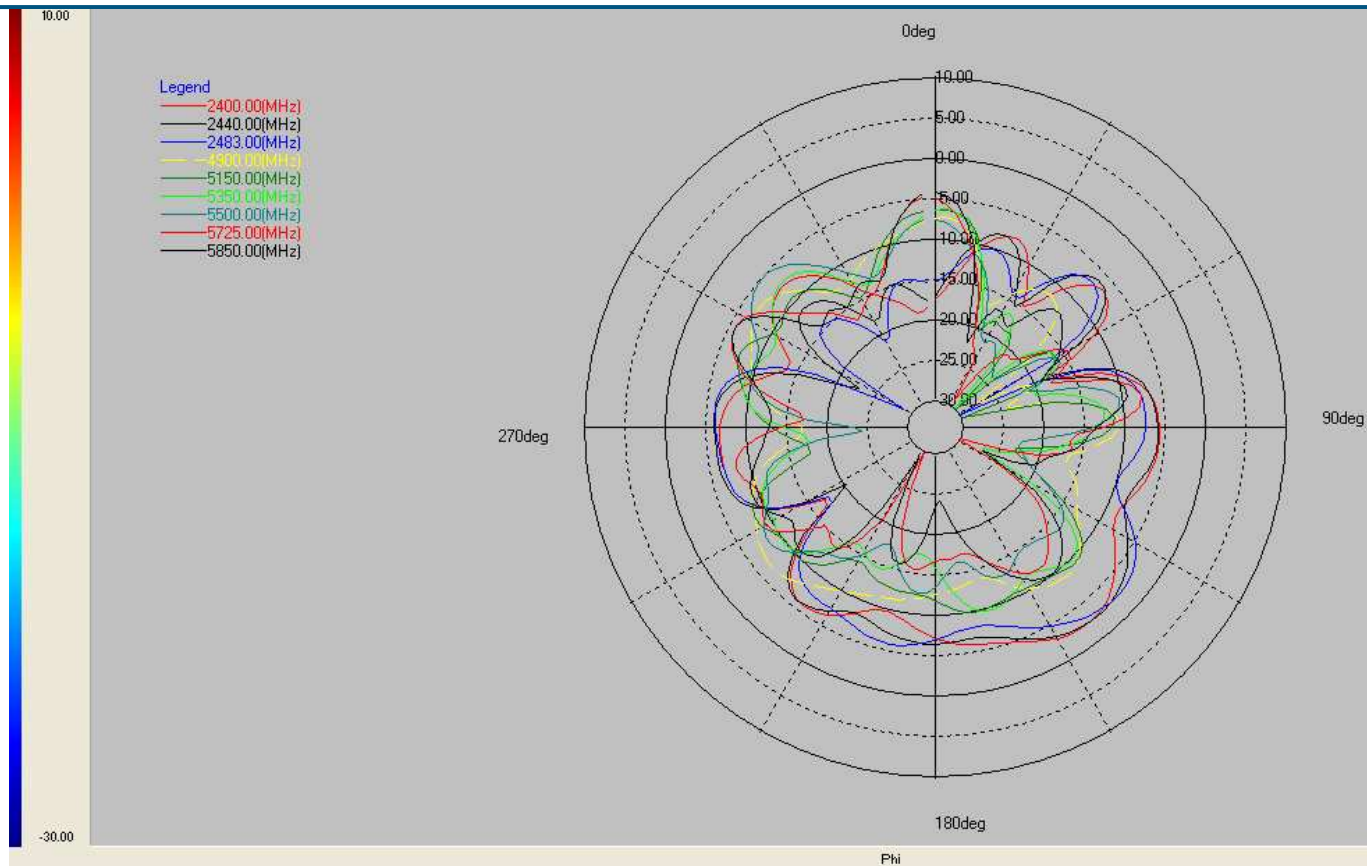
# Antenna 3 Azimuth Vertical Polarization



- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-1.84	294.00 deg	-10.62	324.00 ...	67.85 d...	8.78	-4.48	1.98	----	----	----	----
2440(MHz)	-1.46	72.00 deg	-7.14	240.00 ...	54.54 d...	5.68	-4.30	1.72	----	----	----	----
2483(MHz)	-0.95	219.00 deg	-11.86	153.00 d...	57.77 d...	10.91	-4.63	2.45	----	----	----	----
4900(MHz)	-3.33	351.00 deg	-21.09	210.00 d...	----	17.78	-7.82	4.25	----	----	----	----
5150(MHz)	-2.33	153.00 deg	-26.07	324.00 ...	41.03 deg	23.74	-6.96	3.99	----	----	----	----
5350(MHz)	-2.68	150.00 deg	-24.23	330.00 ...	42.57 d...	21.55	-6.85	3.98	----	----	----	----
5500(MHz)	-2.54	150.00 deg	-19.32	336.00 ...	43.28 d...	16.78	-6.54	3.43	----	----	----	----
5725(MHz)	-1.93	141.00 deg	-15.85	327.00 ...	42.49 d...	13.87	-6.90	3.29	----	----	----	----
5850(MHz)	-1.71	81.00 deg	-24.10	0.00 deg	33.83 d...	22.39	-6.93	5.03	----	----	----	----

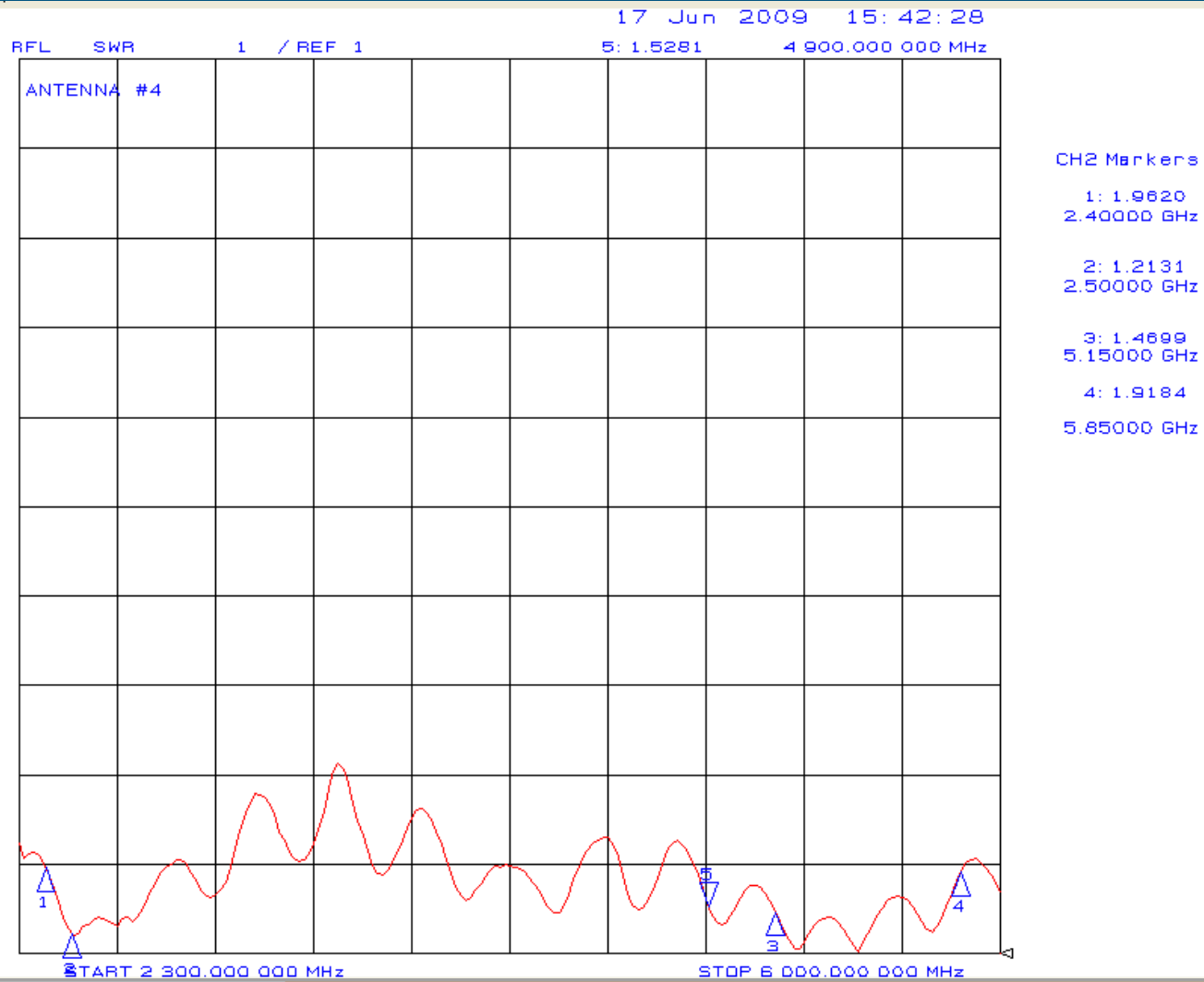
# Antenna 3 Azimuth Horizontal Polarization



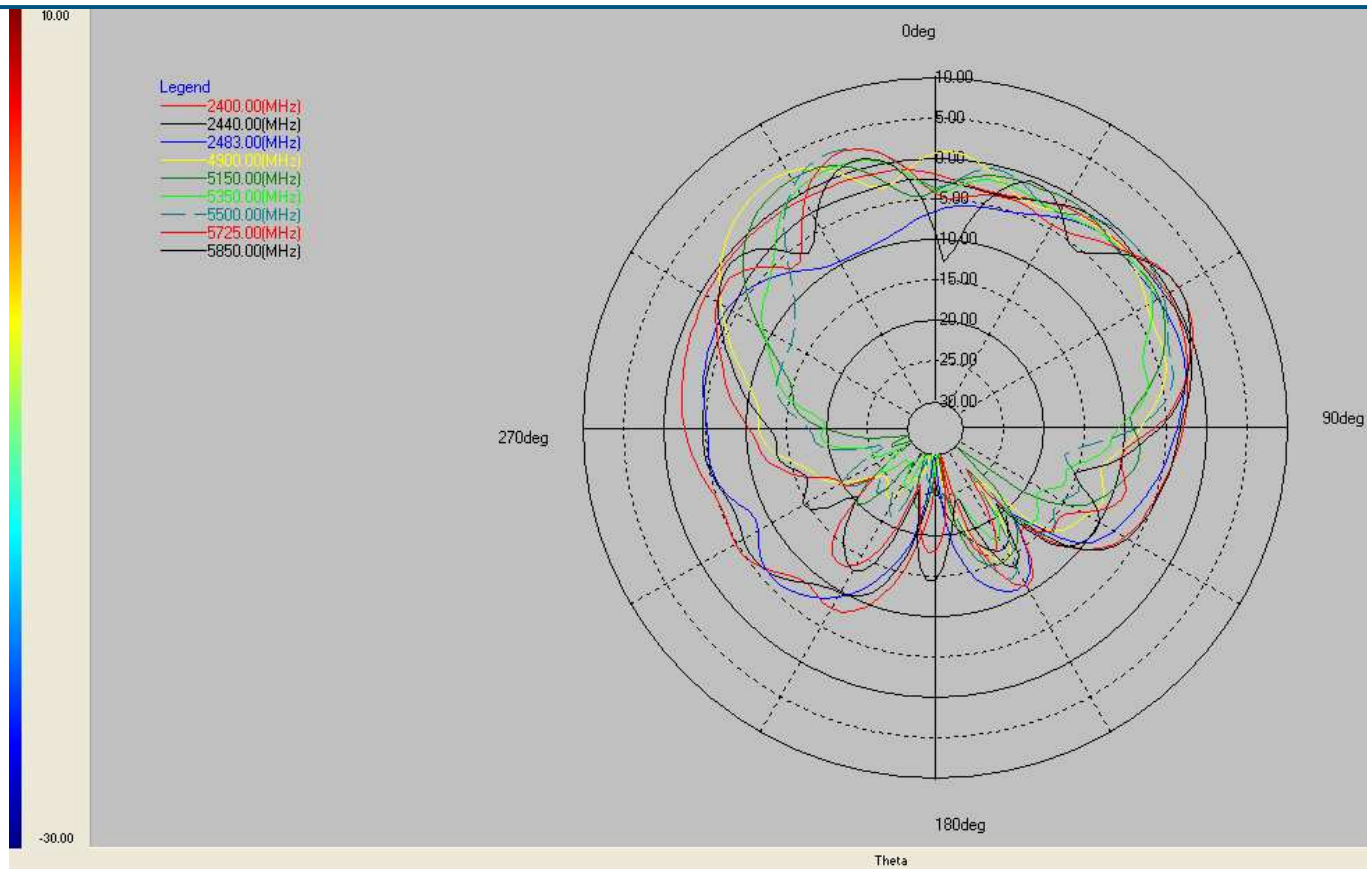
- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-2.68	141.00 deg	-19.18	351.00 d...	37.11 deg	16.50	-7.91	4.04	----	----	----	----
2440(MHz)	-2.66	138.00 deg	-22.90	297.00 ...	38.75 d...	20.24	-7.82	4.61	----	----	----	----
2483(MHz)	-2.74	132.00 deg	-31.20	63.00 d...	35.20 d...	28.46	-8.36	5.35	----	----	----	----
4900(MHz)	-6.78	231.00 deg	-27.89	60.00 d...	40.33 d...	21.11	-10.84	4.00	----	----	----	----
5150(MHz)	-6.53	0.00 deg	-35.96	48.00 d...	----	29.43	-11.46	5.05	----	----	----	----
5350(MHz)	-6.46	3.00 deg	-31.54	45.00 d...	----	25.08	-11.89	4.70	----	----	----	----
5500(MHz)	-5.24	309.00 deg	-24.26	267.00 ...	25.15 deg	19.02	-11.89	4.72	----	----	----	----
5725(MHz)	-4.94	357.00 deg	-35.23	117.00 d...	----	30.29	-11.91	6.08	----	----	----	----
5850(MHz)	-4.38	0.00 deg	-29.17	210.00 d...	----	24.79	-11.73	4.98	----	----	----	----

# Antenna 4 VSWR



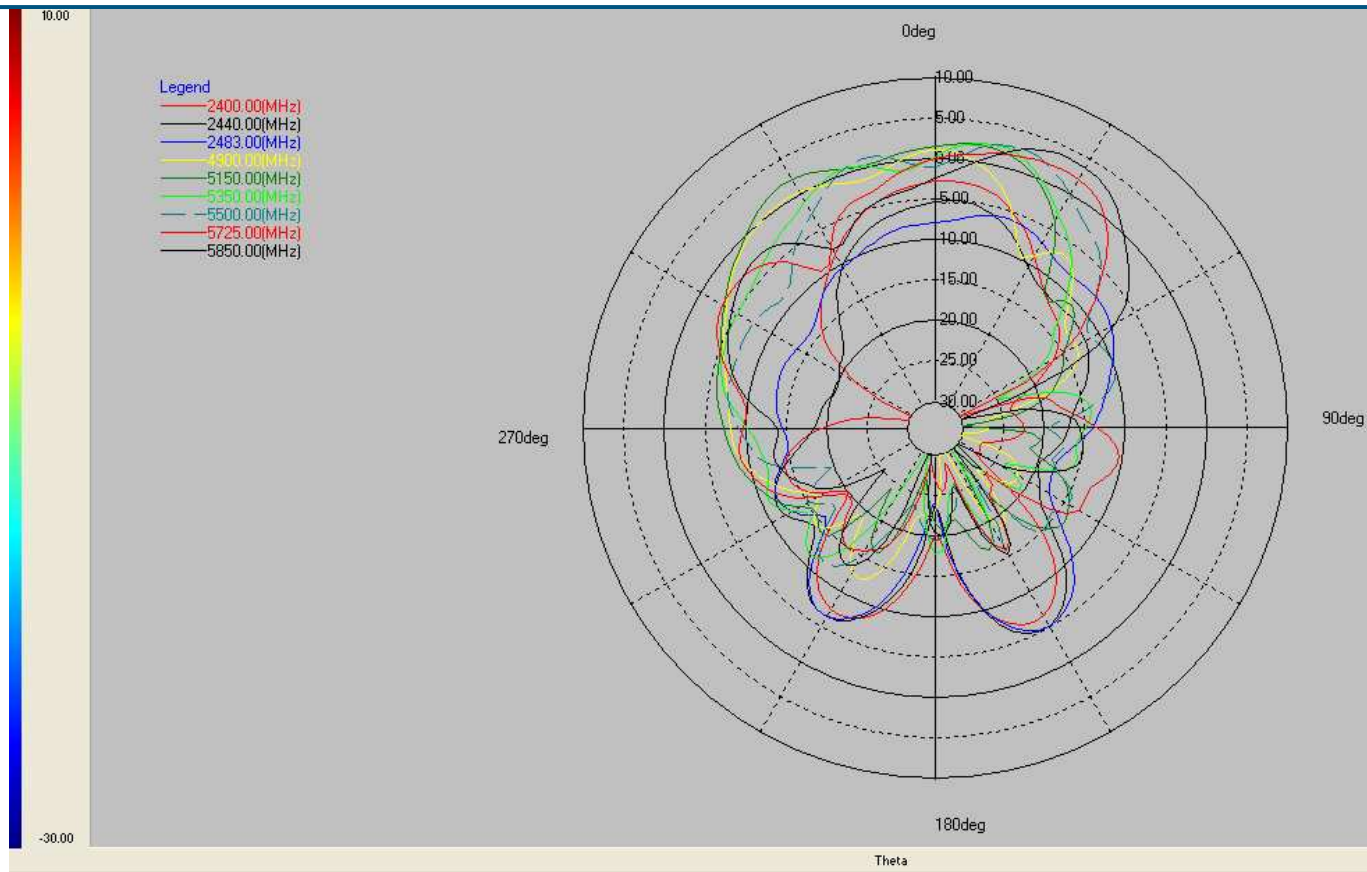
# Antenna 4 Elevation 1 Vertical Polarization



- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.34	63.00 deg	-41.18	174.00 d...	76.64 d...	40.83	-3.43	8.10	----	----	----	----
2440(MHz)	-0.31	63.00 deg	-26.80	-180.00 ...	71.61 deg	26.49	-4.43	6.78	----	----	----	----
2483(MHz)	-1.32	63.00 deg	-32.95	-180.00 ...	70.14 deg	31.63	-5.83	6.36	----	----	----	----
4900(MHz)	3.26	-33.00 deg	-38.43	-177.00 ...	30.78 d...	41.69	-4.23	10.52	----	----	----	----
5150(MHz)	2.01	-30.00 deg	-44.68	-156.00 ...	32.16 deg	46.69	-5.08	11.32	----	----	----	----
5350(MHz)	1.07	-21.00 deg	-37.32	174.00 d...	31.63 deg	38.40	-6.06	10.60	----	----	----	----
5500(MHz)	2.95	-21.00 deg	-29.36	-165.00 ...	24.50 d...	32.31	-4.98	9.50	----	----	----	----
5725(MHz)	2.56	-18.00 deg	-31.86	168.00 d...	20.93 d...	34.43	-4.67	7.82	----	----	----	----
5850(MHz)	1.27	60.00 deg	-25.43	-165.00 ...	30.92 d...	26.70	-5.07	7.17	----	----	----	----

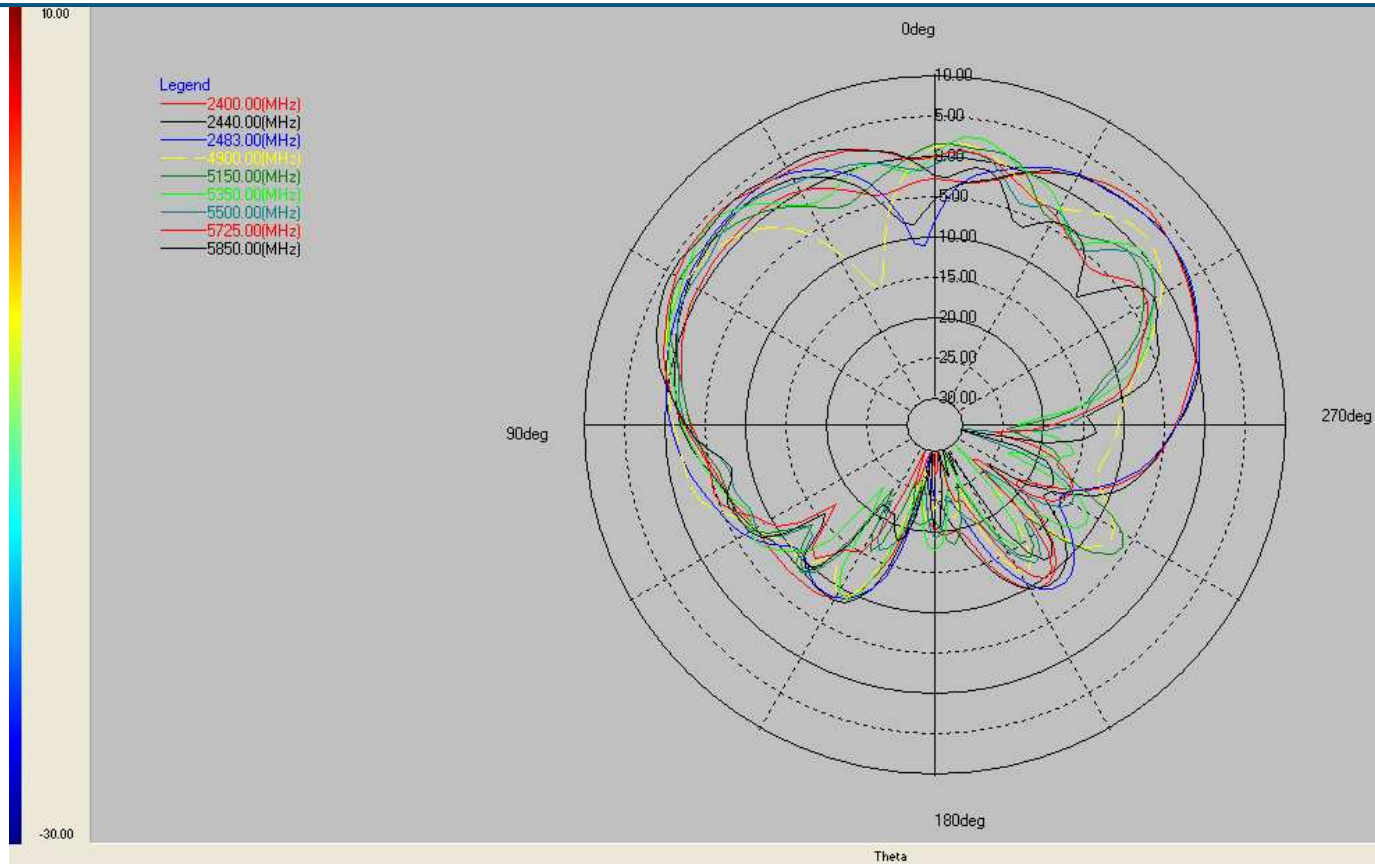
# Antenna 4 Elevation 1 Horizontal Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-2.90	3.00 deg	-42.76	-69.00 d...	42.72 d...	39.86	-10.07	8.08	----	----	----	----
2440(MHz)	-5.24	150.00 deg	-24.00	-180.00 ...	22.46 d...	18.76	-10.60	5.03	----	----	----	----
2483(MHz)	-5.24	150.00 deg	-24.17	-180.00 ...	24.34 d...	18.92	-10.09	4.17	----	----	----	----
4900(MHz)	0.93	0.00 deg	-42.07	102.00 d...	66.83 d...	43.00	-6.27	10.06	----	----	----	----
5150(MHz)	2.07	-30.00 deg	-34.28	87.00 d...	72.47 d...	36.34	-4.75	9.09	----	----	----	----
5350(MHz)	2.37	12.00 deg	-43.07	141.00 d...	26.59 d...	45.44	-5.79	9.63	----	----	----	----
5500(MHz)	2.69	18.00 deg	-25.51	162.00 d...	26.80 d...	28.20	-5.55	7.65	----	----	----	----
5725(MHz)	2.10	27.00 deg	-32.80	66.00 d...	45.06 d...	34.91	-5.65	8.95	----	----	----	----
5850(MHz)	3.74	27.00 deg	-59.30	-168.00 ...	30.72 d...	63.04	-5.19	10.90	----	----	----	----

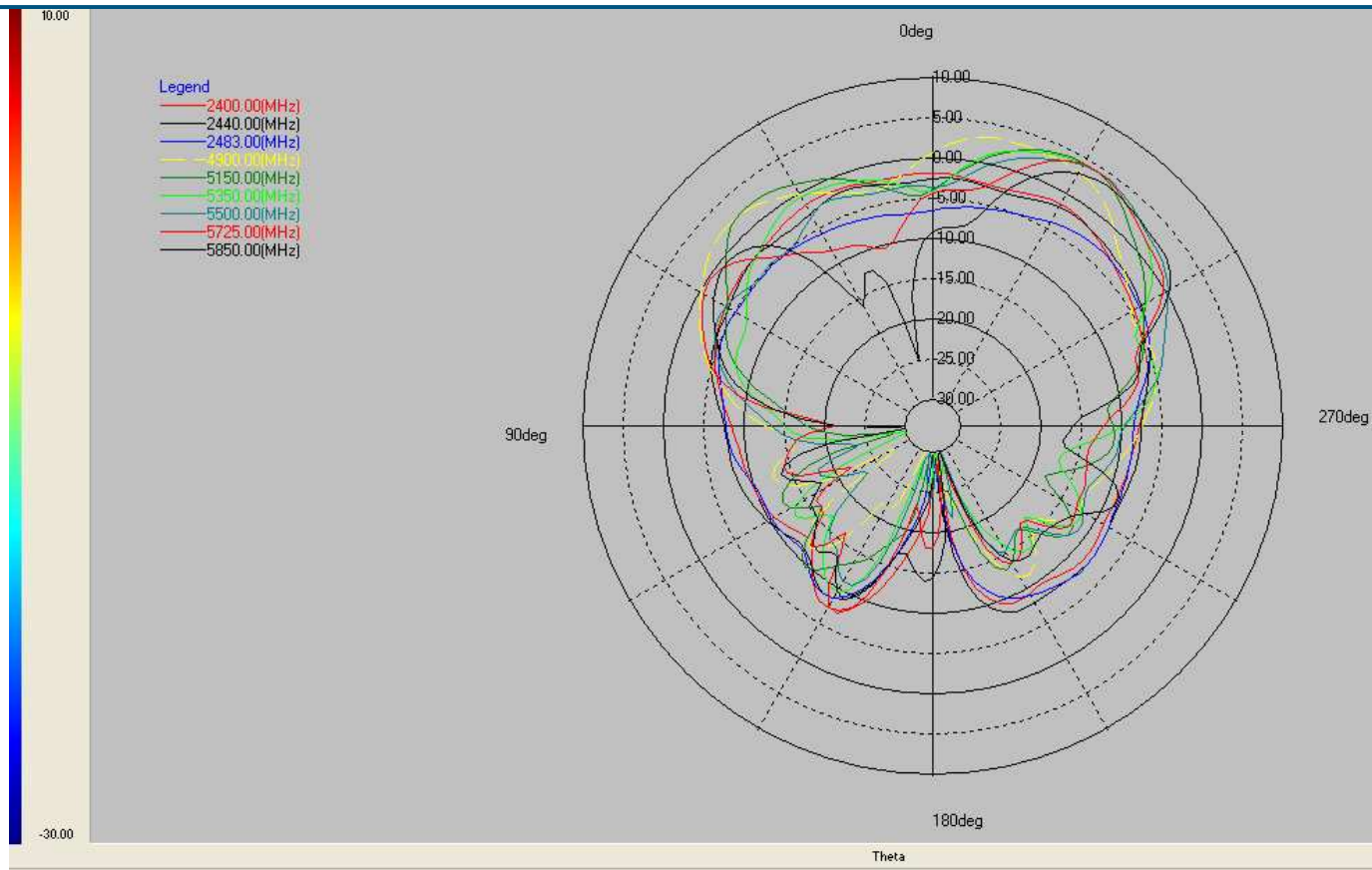


# Antenna 4 Elevation 2 Vertical Polarization



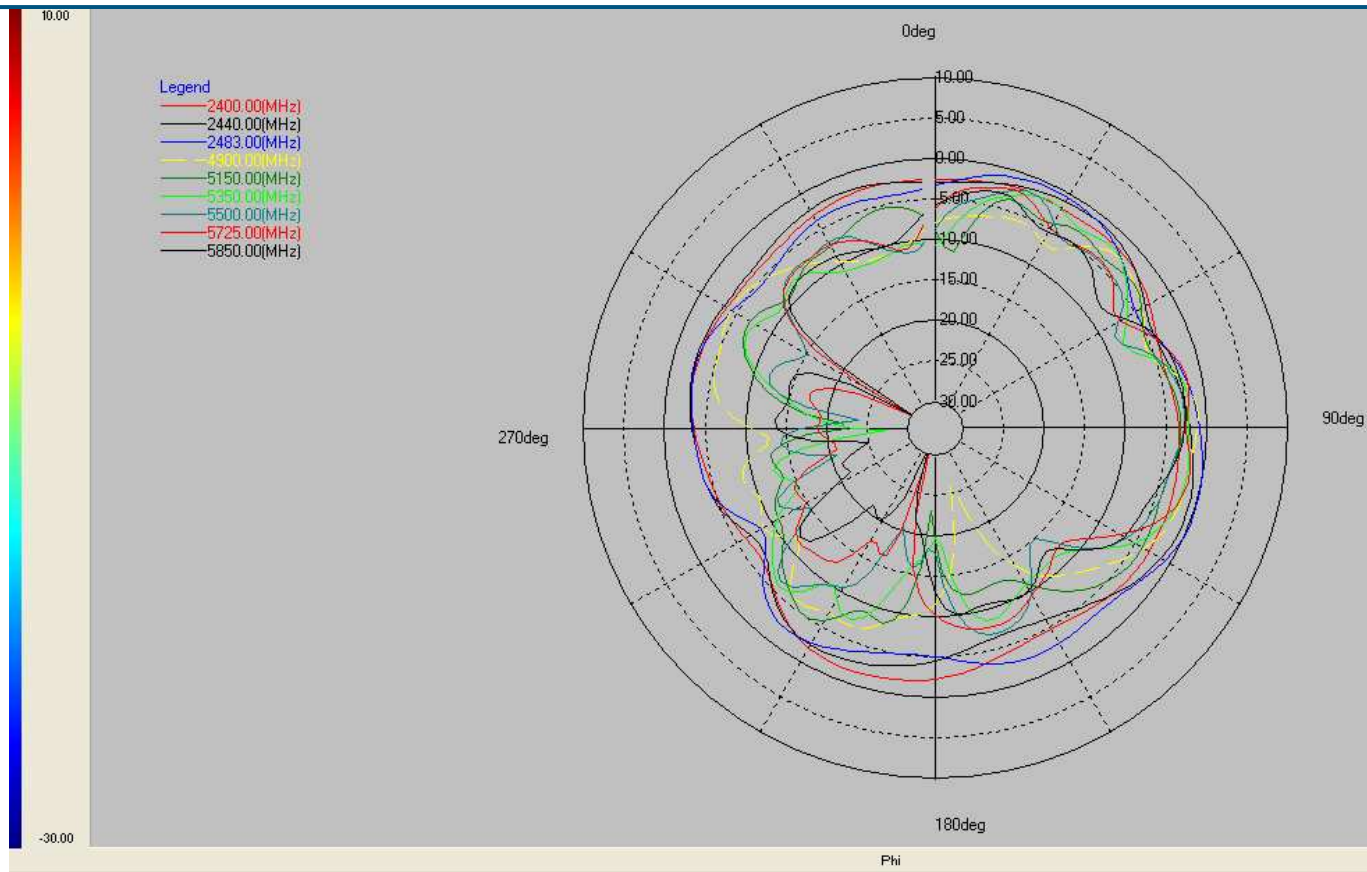
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	3.93	-45.00 deg	-26.04	171.00 d...	45.34 d...	29.97	-2.24	7.56	----	----	----	----
2440(MHz)	3.52	-48.00 deg	-30.05	171.00 d...	52.55 d...	33.57	-1.80	7.91	----	----	----	----
2483(MHz)	3.54	-51.00 deg	-35.22	171.00 d...	53.94 d...	38.76	-1.42	8.58	----	----	----	----
4900(MHz)	2.17	63.00 deg	-27.90	168.00 d...	46.19 deg	30.07	-3.33	8.05	----	----	----	----
5150(MHz)	2.95	60.00 deg	-26.46	162.00 d...	38.00 d...	29.42	-3.50	8.56	----	----	----	----
5350(MHz)	3.91	48.00 deg	-31.95	-135.00 ...	36.73 d...	35.86	-2.84	9.48	----	----	----	----
5500(MHz)	2.47	42.00 deg	-39.38	-99.00 d...	64.01 deg	41.85	-3.58	9.35	----	----	----	----
5725(MHz)	4.09	48.00 deg	-35.61	-174.00 ...	64.82 d...	39.69	-2.46	10.75	----	----	----	----
5850(MHz)	4.15	60.00 deg	-52.85	-171.00 ...	66.63 d...	57.00	-2.41	10.94	----	----	----	----

# Antenna 4 Elevation 2 Horizontal Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-1.68	27.00 deg	-38.63	-177.00 ...	123.66 d...	36.95	-5.54	5.97	----	----	----	----
2440(MHz)	-1.95	-33.00 deg	-28.12	-177.00 ...	145.69 d...	26.17	-5.60	5.47	----	----	----	----
2483(MHz)	-3.32	-45.00 deg	-32.95	-180.00 ...	72.20 d...	29.63	-7.13	5.65	----	----	----	----
4900(MHz)	3.17	-15.00 deg	-43.61	171.00 d...	42.21 deg	46.78	-3.24	10.89	----	----	----	----
5150(MHz)	4.22	-30.00 deg	-31.61	174.00 d...	31.34 deg	35.83	-3.49	9.17	----	----	----	----
5350(MHz)	4.12	-33.00 deg	-33.58	105.00 d...	38.39 d...	37.70	-3.90	9.86	----	----	----	----
5500(MHz)	4.13	-33.00 deg	-41.16	-162.00 ...	40.19 deg	45.23	-3.99	9.21	----	----	----	----
5725(MHz)	4.20	-33.00 deg	-32.77	-168.00 ...	31.17 deg	36.97	-4.52	7.87	----	----	----	----
5850(MHz)	3.32	-36.00 deg	-32.54	-165.00 ...	37.41 deg	35.86	-5.09	7.76	----	----	----	----

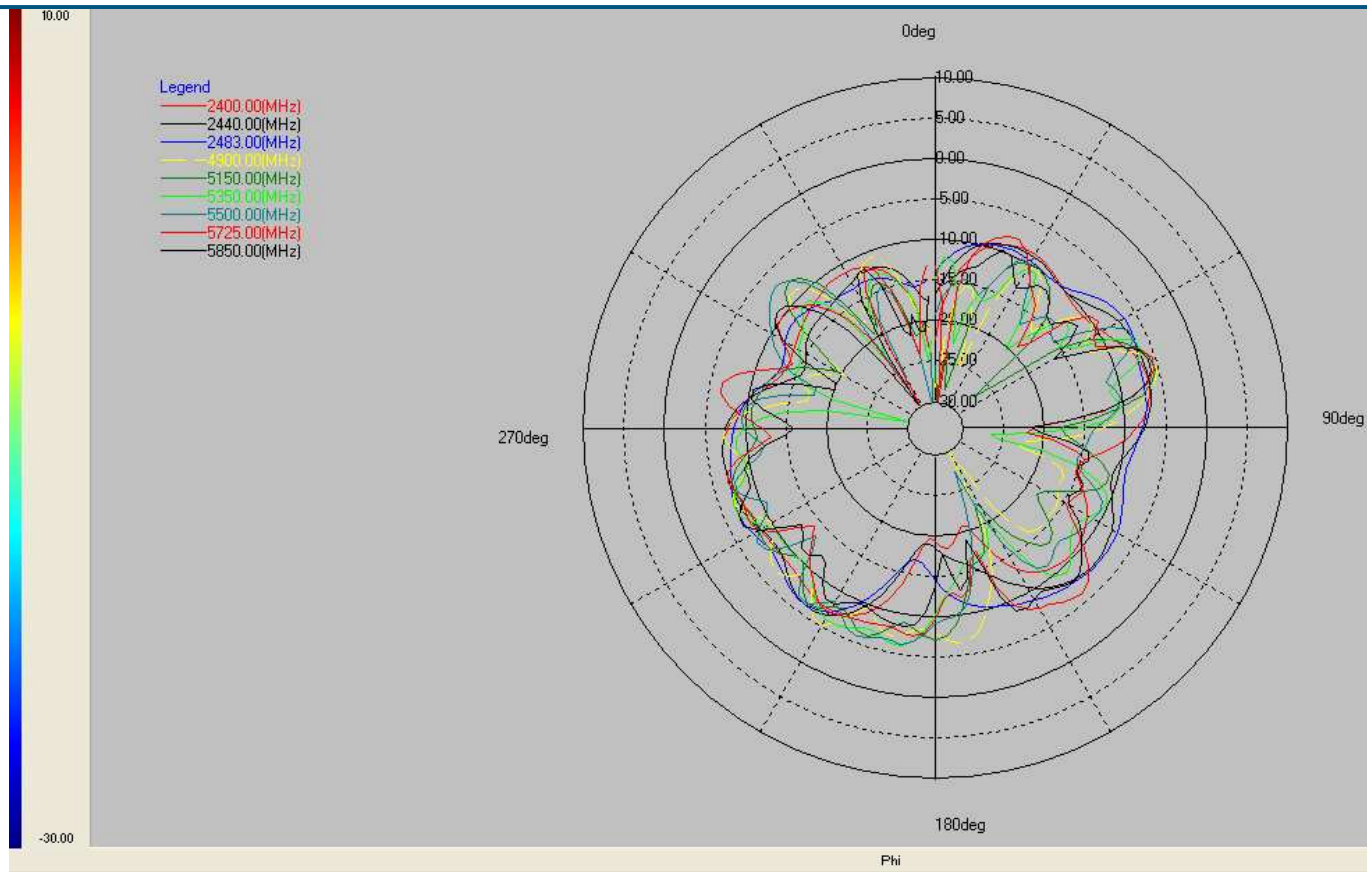
# Antenna 4 Azimuth Vertical Polarization



- Legend
- 2400.00(MHz)
  - 2440.00(MHz)
  - 2483.00(MHz)
  - 4900.00(MHz)
  - 5150.00(MHz)
  - 5350.00(MHz)
  - 5500.00(MHz)
  - 5725.00(MHz)
  - 5850.00(MHz)

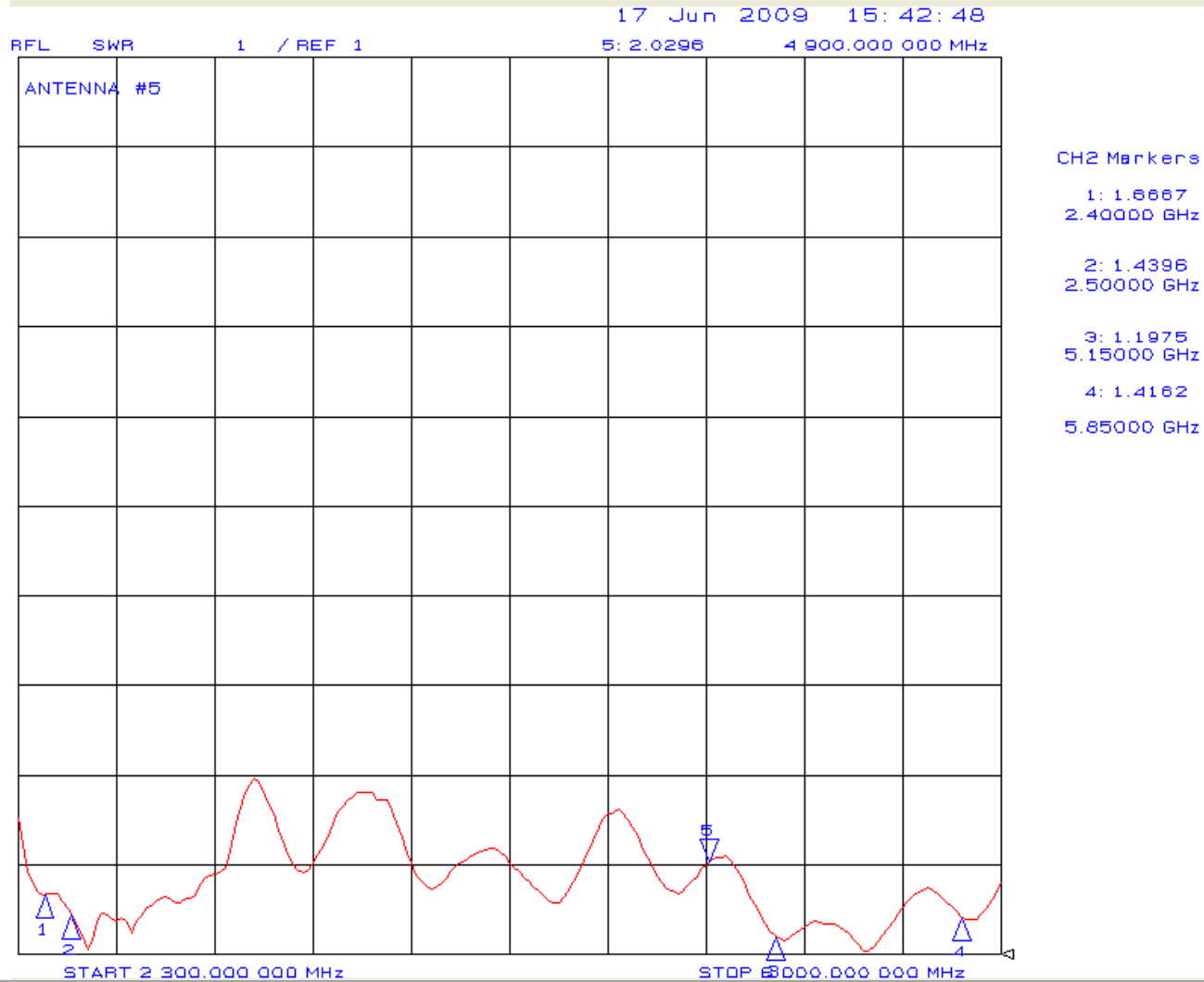
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-1.71	201.00 deg	-6.62	234.00 ...	67.06 d...	4.92	-3.23	1.13	----	----	----	----
2440(MHz)	-0.68	111.00 deg	-7.45	237.00 ...	61.49 deg	6.77	-3.02	1.65	----	----	----	----
2483(MHz)	0.25	108.00 deg	-8.54	240.00 ...	59.32 d...	8.79	-2.90	1.83	----	----	----	----
4900(MHz)	-0.95	87.00 deg	-25.84	165.00 d...	45.47 d...	24.89	-6.06	4.62	----	----	----	----
5150(MHz)	-3.13	90.00 deg	-23.13	183.00 d...	124.31 d...	20.00	-6.60	4.41	----	----	----	----
5350(MHz)	-1.78	102.00 deg	-27.49	267.00 ...	46.26 d...	25.71	-6.62	5.10	----	----	----	----
5500(MHz)	-2.09	21.00 deg	-23.86	276.00 ...	23.82 d...	21.77	-7.40	4.96	----	----	----	----
5725(MHz)	-1.43	102.00 deg	-32.23	297.00 ...	48.01 deg	30.75	-6.99	6.34	----	----	----	----
5850(MHz)	-2.49	84.00 deg	-36.57	300.00 ...	46.18 deg	34.08	-7.92	7.11	----	----	----	----

# Antenna 4 Azimuth Horizontal Polarization

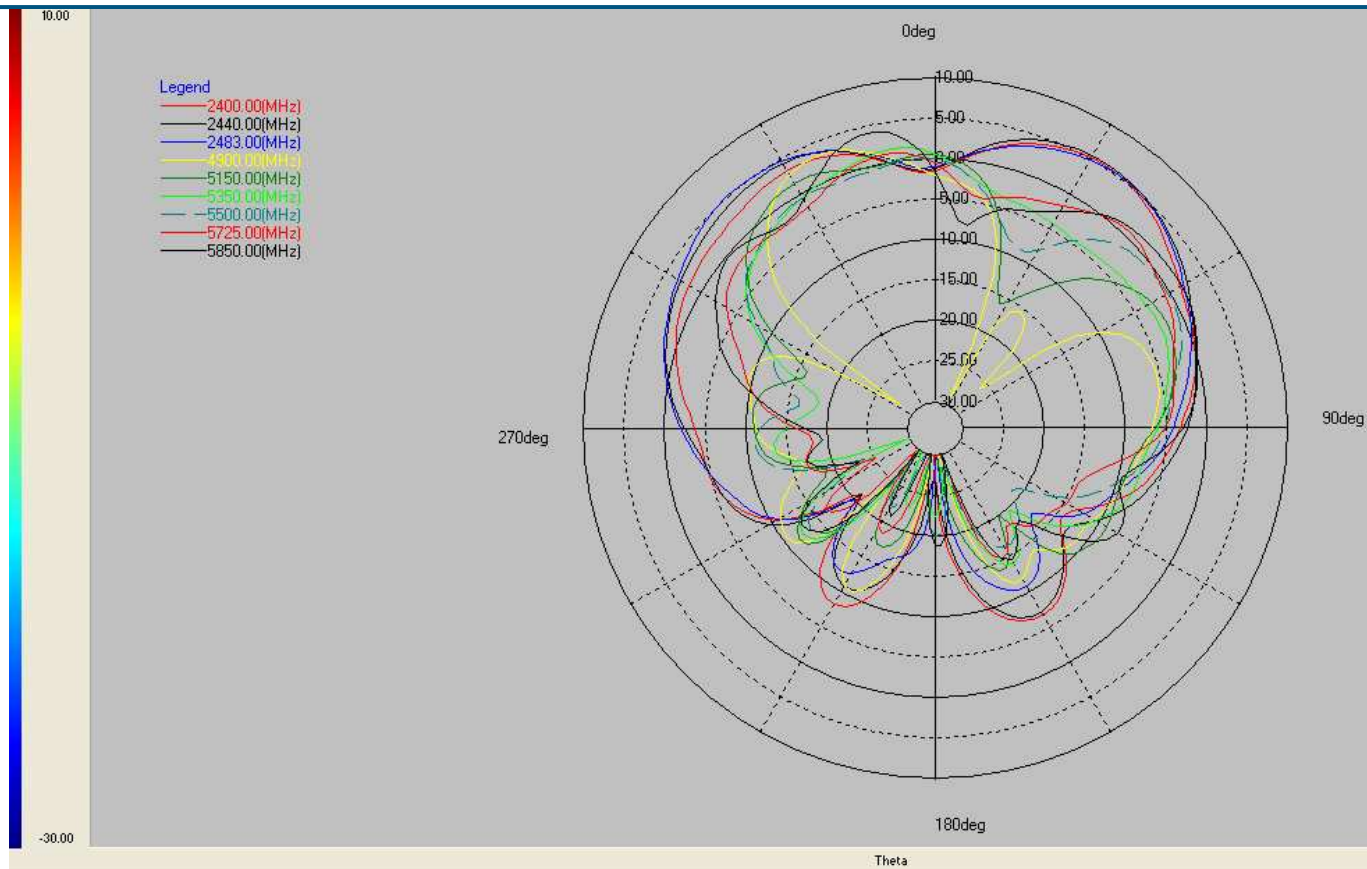


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-6.47	78.00 deg	-24.33	357.00 ...	3179 deg	17.86	-10.40	3.97	----	----	----	----
2440(MHz)	-6.27	216.00 deg	-19.09	193.00 d...	74.36 d...	12.82	-9.63	3.48	----	----	----	----
2483(MHz)	-6.34	216.00 deg	-17.08	199.00 d...	71.01 deg	10.74	-9.25	2.79	----	----	----	----
4900(MHz)	-5.15	75.00 deg	-32.20	3.00 deg	15.69 deg	27.05	-10.64	5.64	----	----	----	----
5150(MHz)	-5.35	75.00 deg	-33.26	3.00 deg	17.02 deg	27.91	-10.87	5.66	----	----	----	----
5350(MHz)	-6.08	207.00 deg	-30.18	292.00 ...	36.51 deg	24.10	-11.14	4.83	----	----	----	----
5500(MHz)	-5.98	201.00 deg	-31.75	354.00 ...	41.81 deg	25.77	-10.79	5.17	----	----	----	----
5725(MHz)	-5.31	72.00 deg	-35.02	6.00 deg	13.86 deg	29.70	-10.17	4.89	----	----	----	----
5850(MHz)	-5.87	72.00 deg	-30.81	324.00 ...	15.40 deg	24.94	-11.27	4.21	----	----	----	----

# Antenna 5 VSWR

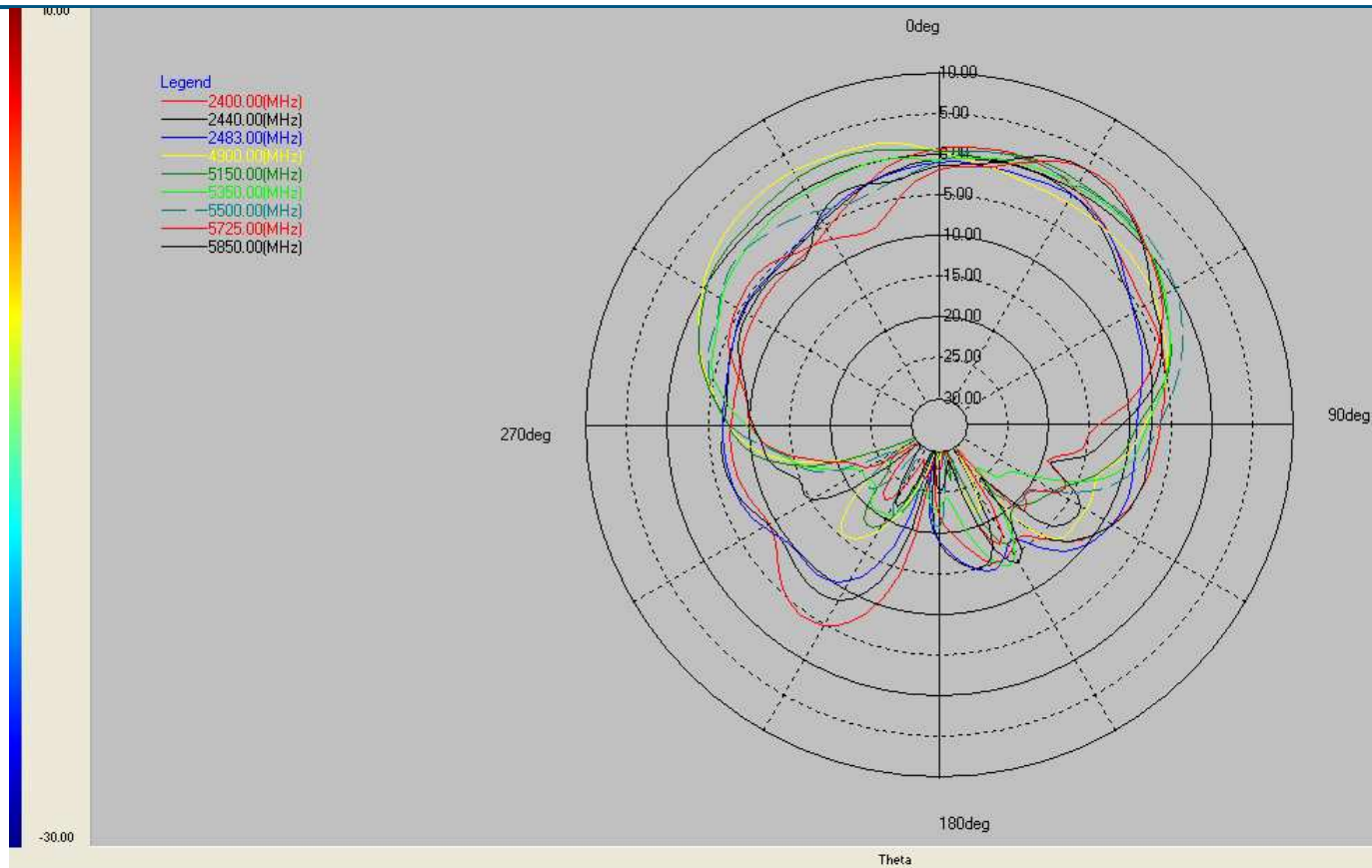


# Antenna 5 Elevation 1 Vertical Polarization



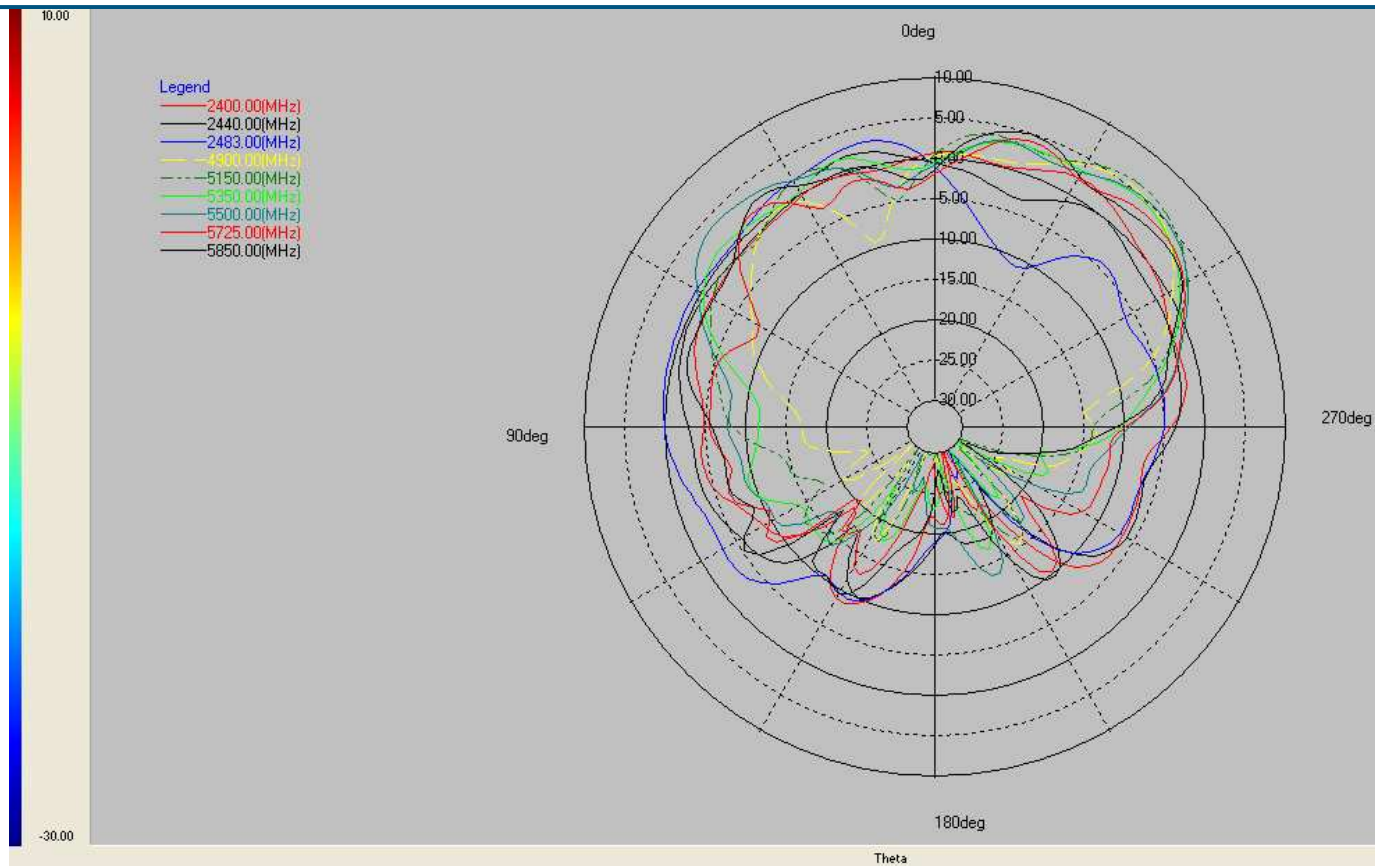
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	5.15	33.00 deg	-39.58	-177.00 ...	43.29 d...	44.74	-0.73	8.52	----	----	----	----
2440(MHz)	5.41	33.00 deg	-26.89	-180.00 ...	48.10 deg	32.30	-0.02	8.33	----	----	----	----
2483(MHz)	5.12	36.00 deg	-30.97	177.00 d...	45.90 d...	36.09	-0.13	9.09	----	----	----	----
4900(MHz)	3.20	-24.00 deg	-38.99	177.00 d...	28.30 d...	42.20	-6.09	9.02	----	----	----	----
5150(MHz)	1.42	-30.00 deg	-58.32	-177.00 ...	55.96 d...	59.74	-5.53	9.97	----	----	----	----
5350(MHz)	1.41	-9.00 deg	-35.32	-150.00 ...	43.87 d...	36.74	-5.55	9.26	----	----	----	----
5500(MHz)	-0.10	-3.00 deg	-45.08	-165.00 ...	59.60 d...	44.98	-5.54	9.56	----	----	----	----
5725(MHz)	0.85	-9.00 deg	-36.49	168.00 d...	35.68 d...	37.34	-4.88	10.31	----	----	----	----
5850(MHz)	3.93	-12.00 deg	-38.14	-144.00 ...	21.57 deg	42.07	-3.38	10.15	----	----	----	----

# Antenna 5 Elevation 1 Horizontal Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	1.09	15.00 deg	-29.31	-174.00 ...	55.28 d...	30.40	-4.90	6.14	----	----	----	----
2440(MHz)	-0.23	18.00 deg	-34.79	-171.00 ...	64.90 d...	34.56	-5.61	6.65	----	----	----	----
2483(MHz)	-0.89	30.00 deg	-31.83	-168.00 ...	77.86 d...	30.94	-5.86	5.96	----	----	----	----
4900(MHz)	2.56	-33.00 deg	-45.11	171.00 d...	67.09 d...	47.67	-3.44	11.53	----	----	----	----
5150(MHz)	1.62	-24.00 deg	-44.02	162.00 d...	124.66 d...	45.64	-3.20	11.98	----	----	----	----
5350(MHz)	0.47	42.00 deg	-26.46	138.00 d...	125.71 d...	26.92	-4.24	9.52	----	----	----	----
5500(MHz)	1.01	45.00 deg	-38.53	153.00 d...	76.86 d...	39.54	-4.20	11.13	----	----	----	----
5725(MHz)	2.88	33.00 deg	-41.43	168.00 d...	35.03 d...	44.32	-5.33	10.54	----	----	----	----
5850(MHz)	2.73	30.00 deg	-34.34	-135.00 ...	36.86 d...	37.08	-5.06	10.01	----	----	----	----

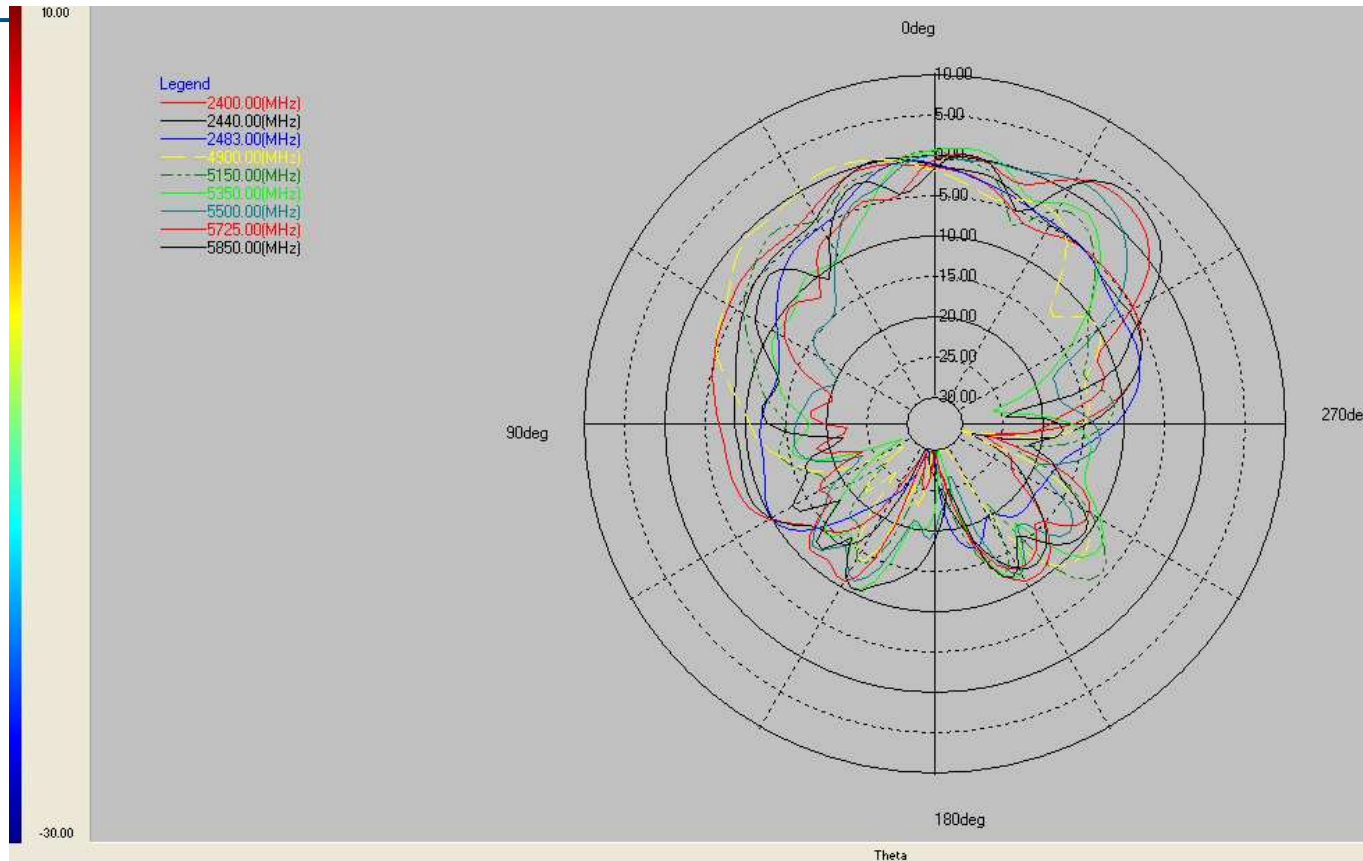
# Antenna 5 Elevation 2 Vertical Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	2.20	-33.00 deg	-31.96	-162.00 ...	70.06 d...	34.16	-3.06	7.97	----	----	----	----
2440(MHz)	1.80	18.00 deg	-24.04	-144.00 ...	50.29 d...	25.84	-3.23	6.72	----	----	----	----
2483(MHz)	2.93	15.00 deg	-35.62	-147.00 ...	88.66 d...	38.55	-3.05	8.12	----	----	----	----
4900(MHz)	5.13	-39.00 deg	-40.34	-171.00 d...	32.45 d...	45.47	-3.43	11.59	----	----	----	----
5150(MHz)	5.91	-42.00 deg	-35.40	-177.00 ...	51.93 deg	41.31	-1.83	11.94	----	----	----	----
5350(MHz)	4.53	-42.00 deg	-43.40	-126.00 ...	52.59 d...	47.93	-2.23	11.21	----	----	----	----
5500(MHz)	5.08	-45.00 deg	-29.74	-156.00 d...	52.84 d...	34.82	-1.53	9.94	----	----	----	----
5725(MHz)	3.91	-18.00 deg	-31.70	-159.00 ...	55.87 d...	35.61	-2.78	9.36	----	----	----	----
5850(MHz)	4.67	-18.00 deg	-29.13	-120.00 ...	54.88 d...	33.79	-2.11	9.44	----	----	----	----

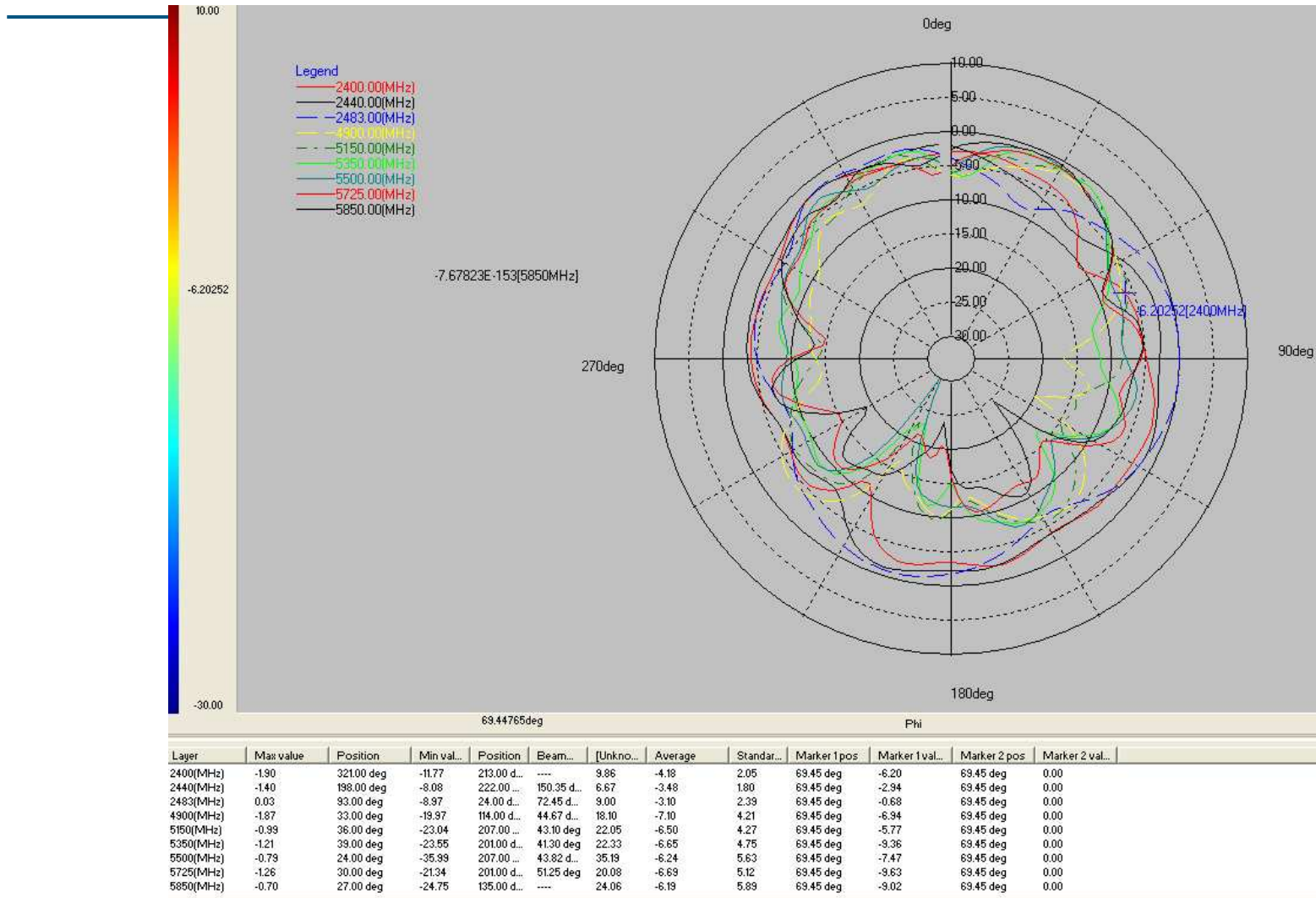


# Antenna 5 Elevation 2 Horizontal Polarization

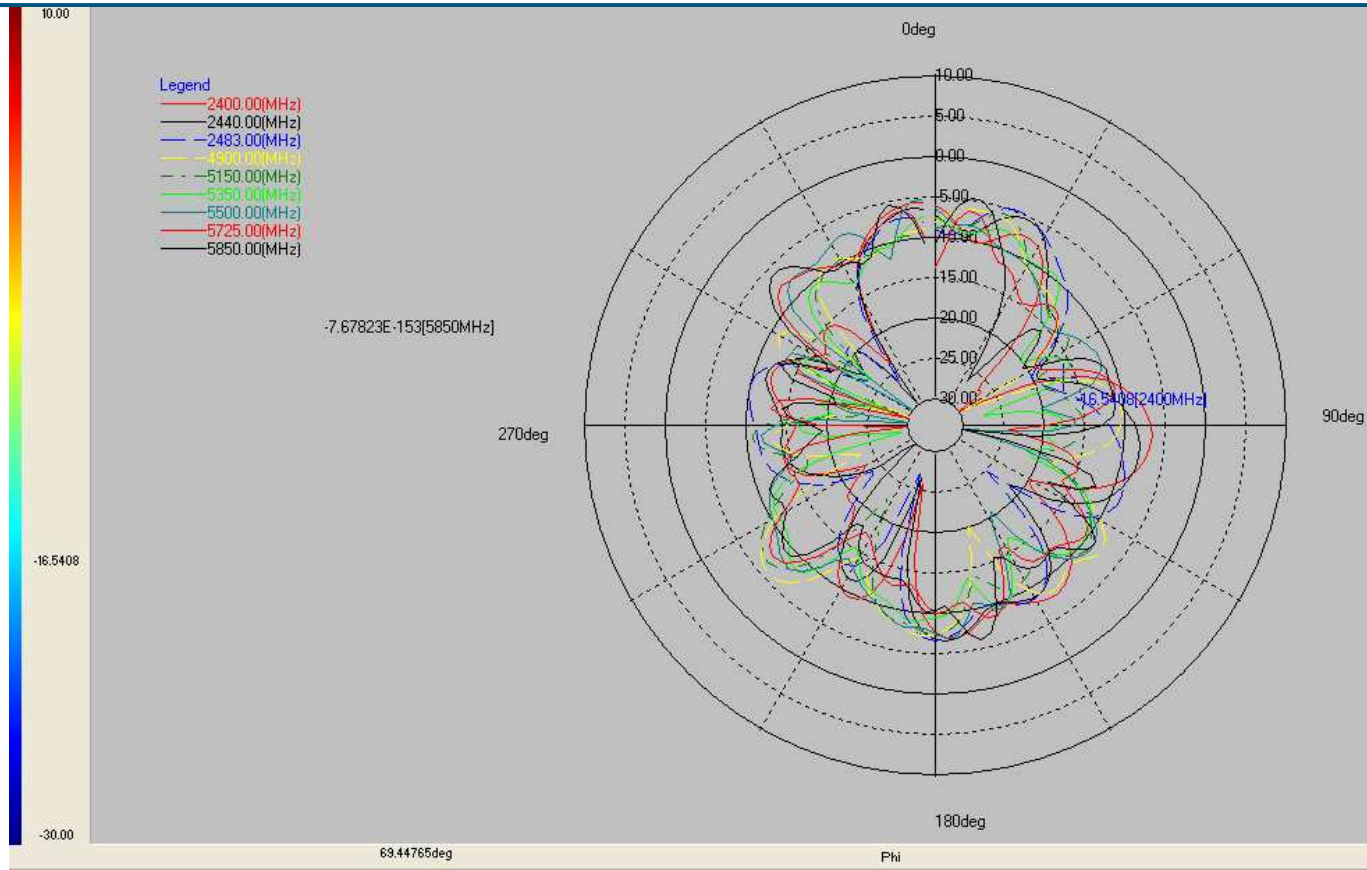


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.62	15.00 deg	-31.05	171.00 d...	48.33 d...	30.42	-6.54	9.06	----	----	----	----
2440(MHz)	-0.08	12.00 deg	-34.82	162.00 d...	45.02 d...	34.73	-6.85	8.51	----	----	----	----
2483(MHz)	-0.75	6.00 deg	-48.27	174.00 d...	40.86 d...	47.52	-7.88	8.65	----	----	----	----
4900(MHz)	0.64	24.00 deg	-41.92	-105.00 ...	55.07 d...	42.56	-6.36	10.43	----	----	----	----
5150(MHz)	0.41	3.00 deg	-41.99	-180.00 ...	37.24 d...	42.40	-6.92	8.69	----	----	----	----
5350(MHz)	0.92	-9.00 deg	-39.67	-171.00 ...	30.16 deg	40.59	-7.51	7.72	----	----	----	----
5500(MHz)	1.58	-33.00 deg	-26.72	-165.00 ...	55.54 d...	28.30	-6.62	7.23	----	----	----	----
5725(MHz)	2.78	-39.00 deg	-30.03	-180.00 ...	27.32 d...	32.81	-6.04	8.57	----	----	----	----
5850(MHz)	3.78	-39.00 deg	-25.17	-168.00 ...	24.76 d...	28.95	-5.36	7.12	----	----	----	----

# Antenna 5 Azimuth Vertical Polarization

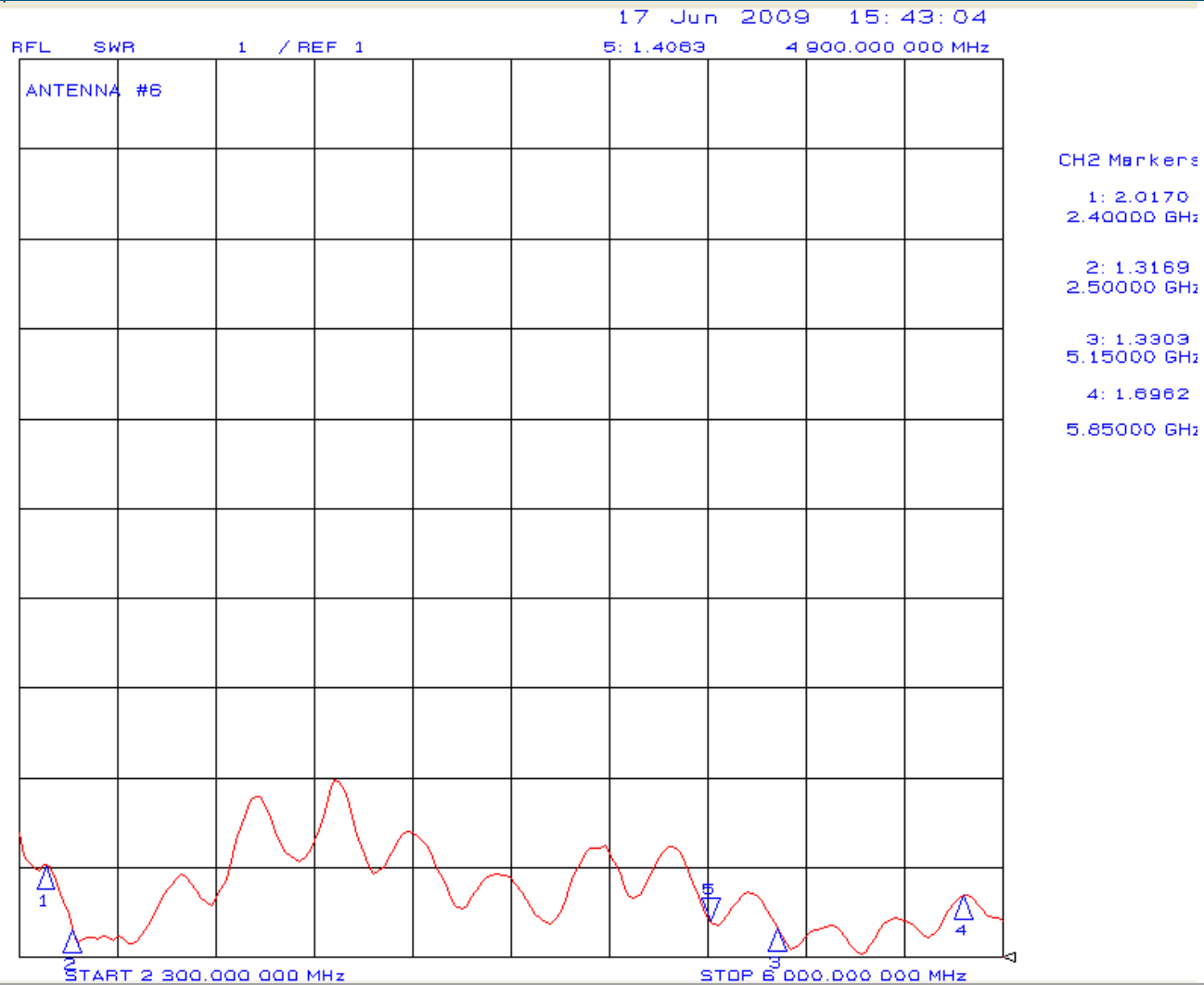


# Antenna 5 Azimuth Horizontal Polarization

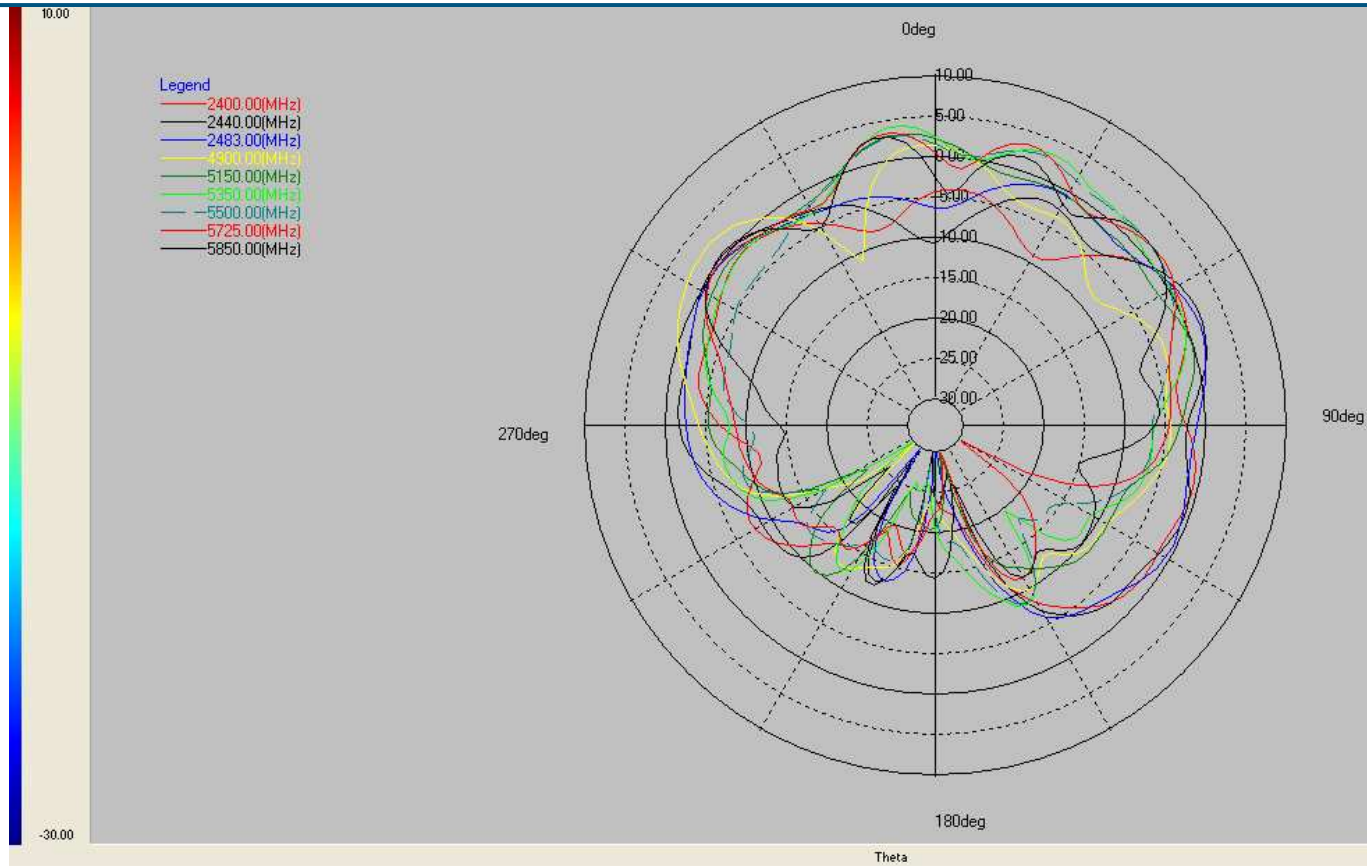


Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-5.83	354.00 deg	-30.31	60.00 d...	----	24.48	-10.83	5.69	69.45 deg	-16.54	----	----
2440(MHz)	-5.54	24.00 deg	-32.75	321.00 d...	20.64 d...	27.21	-11.03	5.70	69.45 deg	-17.64	69.45 deg	0.00
2483(MHz)	-4.98	21.00 deg	-27.18	198.00 d...	25.27 d...	22.21	-10.87	5.27	69.45 deg	-19.33	69.45 deg	0.00
4900(MHz)	-5.86	228.00 deg	-39.57	288.00 ...	18.51 deg	33.70	-10.64	5.43	69.45 deg	-18.44	69.45 deg	0.00
5150(MHz)	-5.95	18.00 deg	-28.47	288.00 ...	20.67 d...	22.52	-11.34	4.44	69.45 deg	-20.60	69.45 deg	0.00
5350(MHz)	-7.62	357.00 deg	-29.26	258.00 ...	----	21.64	-12.04	4.93	69.45 deg	-17.09	69.45 deg	0.00
5500(MHz)	-5.49	357.00 deg	-35.42	276.00 ...	----	29.33	-10.79	5.48	69.45 deg	-11.51	69.45 deg	0.00
5725(MHz)	-6.57	9.00 deg	-32.95	267.00 ...	11.92 deg	26.39	-11.74	4.46	69.45 deg	-14.10	69.45 deg	0.00
5850(MHz)	-4.95	9.00 deg	-31.10	99.00 d...	14.07 deg	26.14	-11.12	4.67	69.45 deg	-11.71	69.45 deg	0.00

# Antenna 6 VSWR

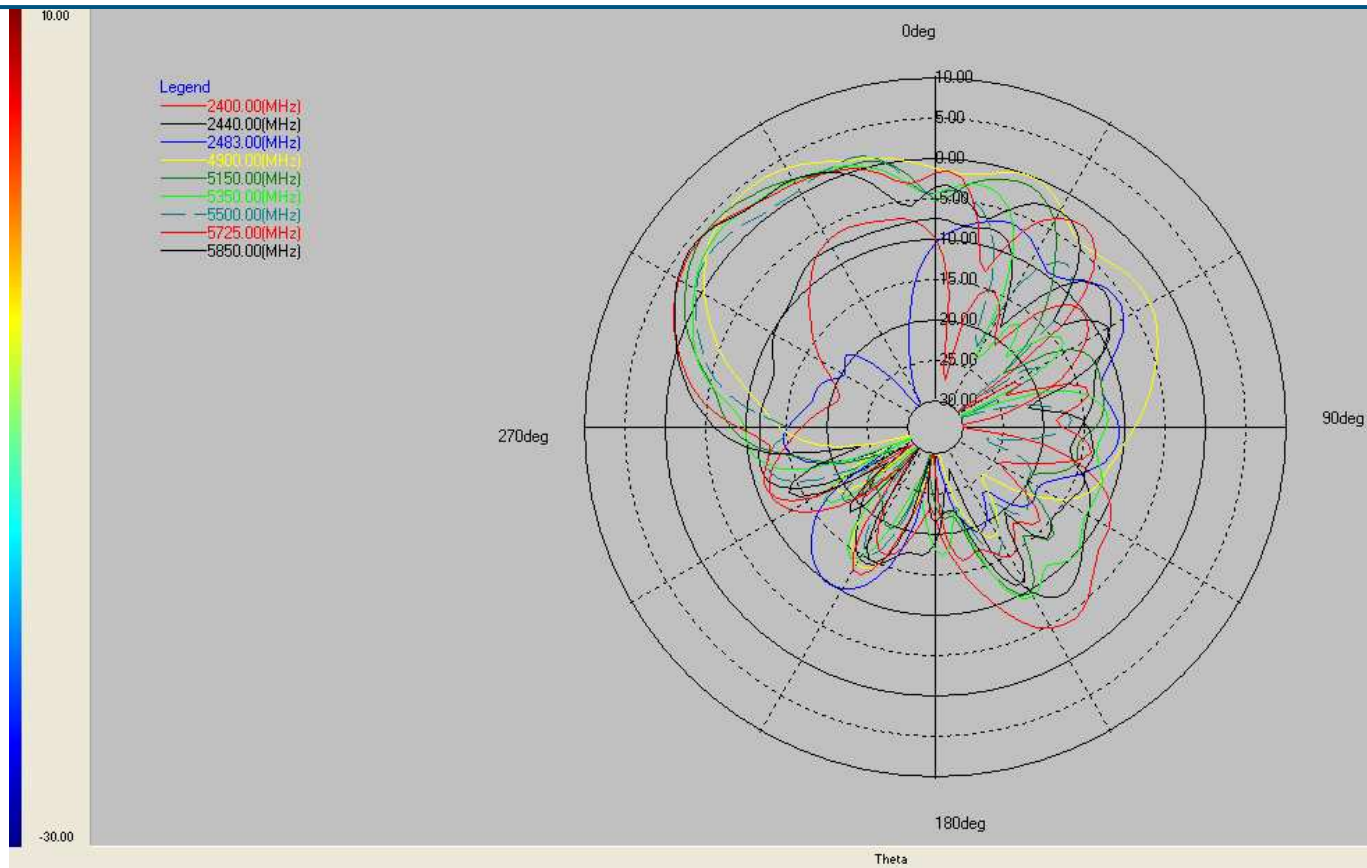


# Antenna 6 Elevation 1 Vertical Polarization



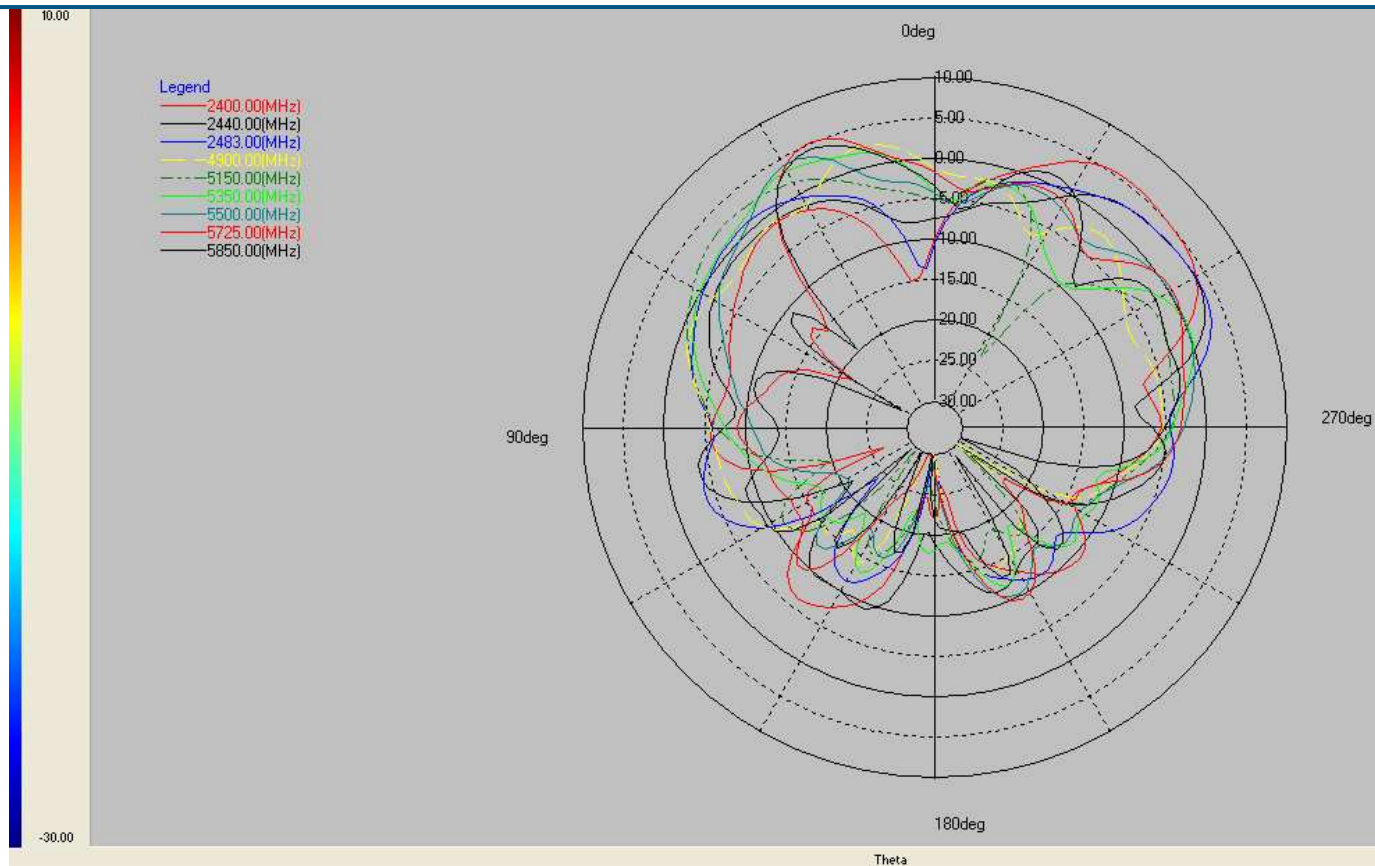
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	0.56	63.00 deg	-25.49	-177.00 ...	29.44 d...	26.05	-4.53	6.51	----	----	----	----
2440(MHz)	1.97	66.00 deg	-31.17	-174.00 ...	32.19 deg	33.15	-3.27	7.87	----	----	----	----
2483(MHz)	1.51	69.00 deg	-34.66	-147.00 ...	46.21 deg	36.17	-2.99	8.35	----	----	----	----
4900(MHz)	2.41	-64.00 deg	-35.86	-132.00 ...	36.21 deg	38.26	-4.09	7.43	----	----	----	----
5150(MHz)	2.78	-6.00 deg	-35.59	168.00 d...	30.89 d...	38.36	-3.39	8.23	----	----	----	----
5350(MHz)	3.81	-9.00 deg	-36.80	-126.00 ...	21.70 deg	40.60	-2.80	8.54	----	----	----	----
5500(MHz)	2.67	-9.00 deg	-29.27	-177.00 ...	83.73 d...	31.93	-3.44	7.45	----	----	----	----
5725(MHz)	3.16	18.00 deg	-41.35	168.00 d...	19.92 deg	44.51	-3.16	9.02	----	----	----	----
5850(MHz)	2.85	-12.00 deg	-25.88	165.00 d...	17.13 deg	28.73	-4.05	7.41	----	----	----	----

# Antenna 6 Elevation 1 Horizontal Polarization



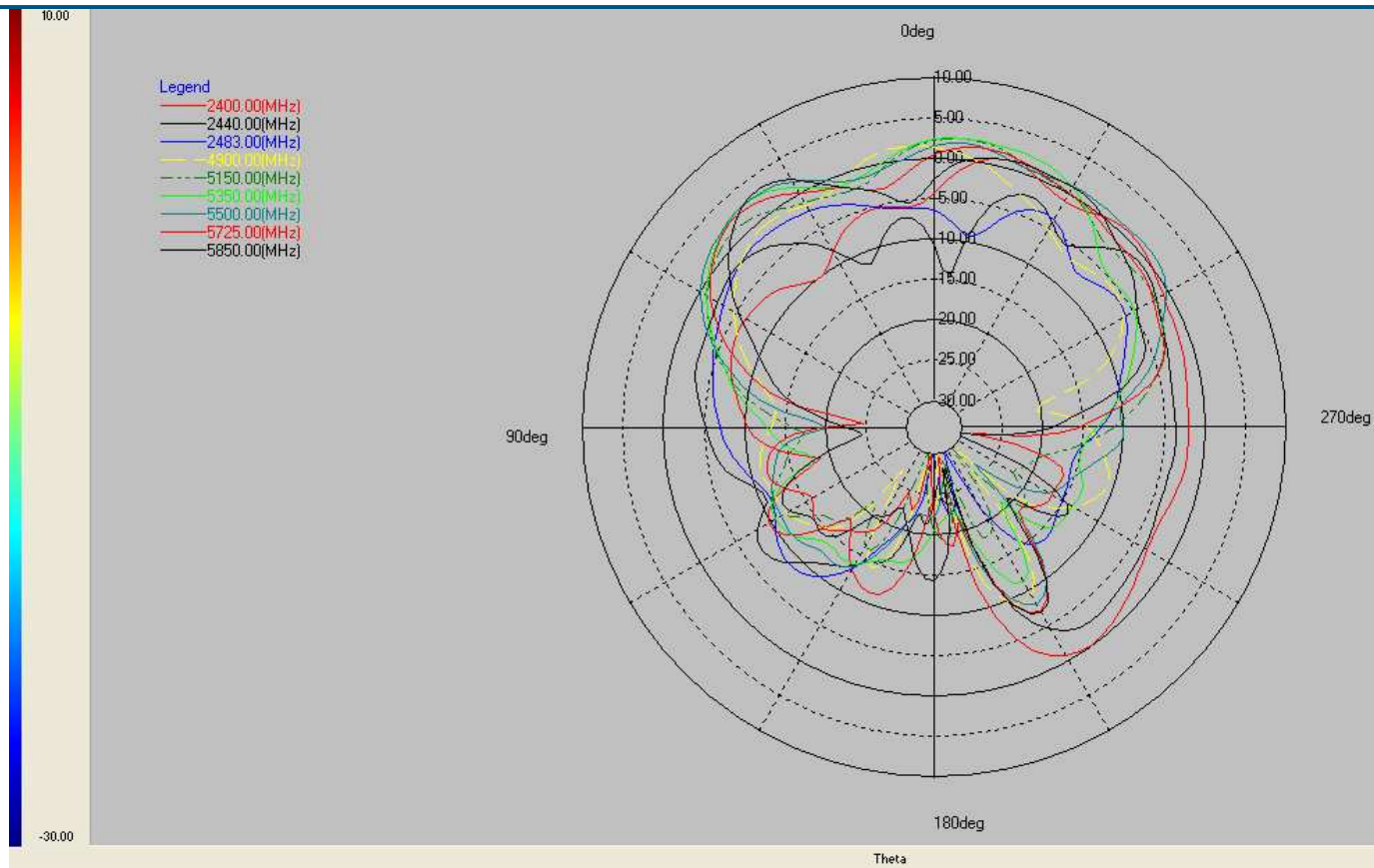
Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-4.17	144.00 deg	-39.18	90.00 d...	24.75 d...	35.01	-11.44	6.92	----	----	----	----
2440(MHz)	-6.65	51.00 deg	-29.39	-123.00 ...	20.78 d...	22.74	-11.08	5.30	----	----	----	----
2483(MHz)	-5.90	54.00 deg	-34.97	-36.00 d...	24.83 d...	29.07	-12.62	7.09	----	----	----	----
4900(MHz)	3.98	-36.00 deg	-34.58	174.00 d...	40.61 deg	38.56	-3.61	10.71	----	----	----	----
5150(MHz)	3.86	-48.00 deg	-36.61	-168.00 ...	40.51 deg	40.47	-4.25	9.52	----	----	----	----
5350(MHz)	2.58	-48.00 deg	-38.61	-114.00 ...	51.41 deg	41.19	-5.12	8.87	----	----	----	----
5500(MHz)	1.81	-51.00 deg	-46.43	-138.00 ...	57.57 d...	48.24	-5.94	10.13	----	----	----	----
5725(MHz)	3.80	-51.00 deg	-37.23	-126.00 ...	46.66 d...	41.04	-4.28	9.63	----	----	----	----
5850(MHz)	3.95	-54.00 deg	-30.38	-144.00 ...	45.44 d...	34.33	-4.28	8.72	----	----	----	----

# Antenna 6 Elevation 2 Vertical Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	5.37	-39.00 deg	-26.67	111.00 deg	39.96 d...	32.04	-2.80	7.62	----	----	----	----
2440(MHz)	3.73	-60.00 deg	-29.28	-126.00 ...	39.52 d...	33.01	-3.57	6.81	----	----	----	----
2483(MHz)	3.85	-63.00 deg	-33.14	177.00 d...	44.27 d...	37.00	-2.56	8.34	----	----	----	----
4900(MHz)	2.52	15.00 deg	-41.90	171.00 d...	23.11 deg	44.43	-4.68	9.94	----	----	----	----
5150(MHz)	2.66	45.00 deg	-40.95	141.00 d...	44.36 d...	43.60	-4.41	9.00	----	----	----	----
5350(MHz)	3.15	30.00 deg	-22.71	165.00 d...	50.53 d...	25.86	-3.74	7.19	----	----	----	----
5500(MHz)	3.32	30.00 deg	-29.41	174.00 d...	22.59 d...	33.33	-3.80	8.10	----	----	----	----
5725(MHz)	5.09	24.00 deg	-58.87	168.00 d...	19.65 deg	63.36	-3.98	9.95	----	----	----	----
5850(MHz)	4.20	24.00 deg	-41.25	153.00 d...	21.75 deg	45.44	-4.71	9.21	----	----	----	----

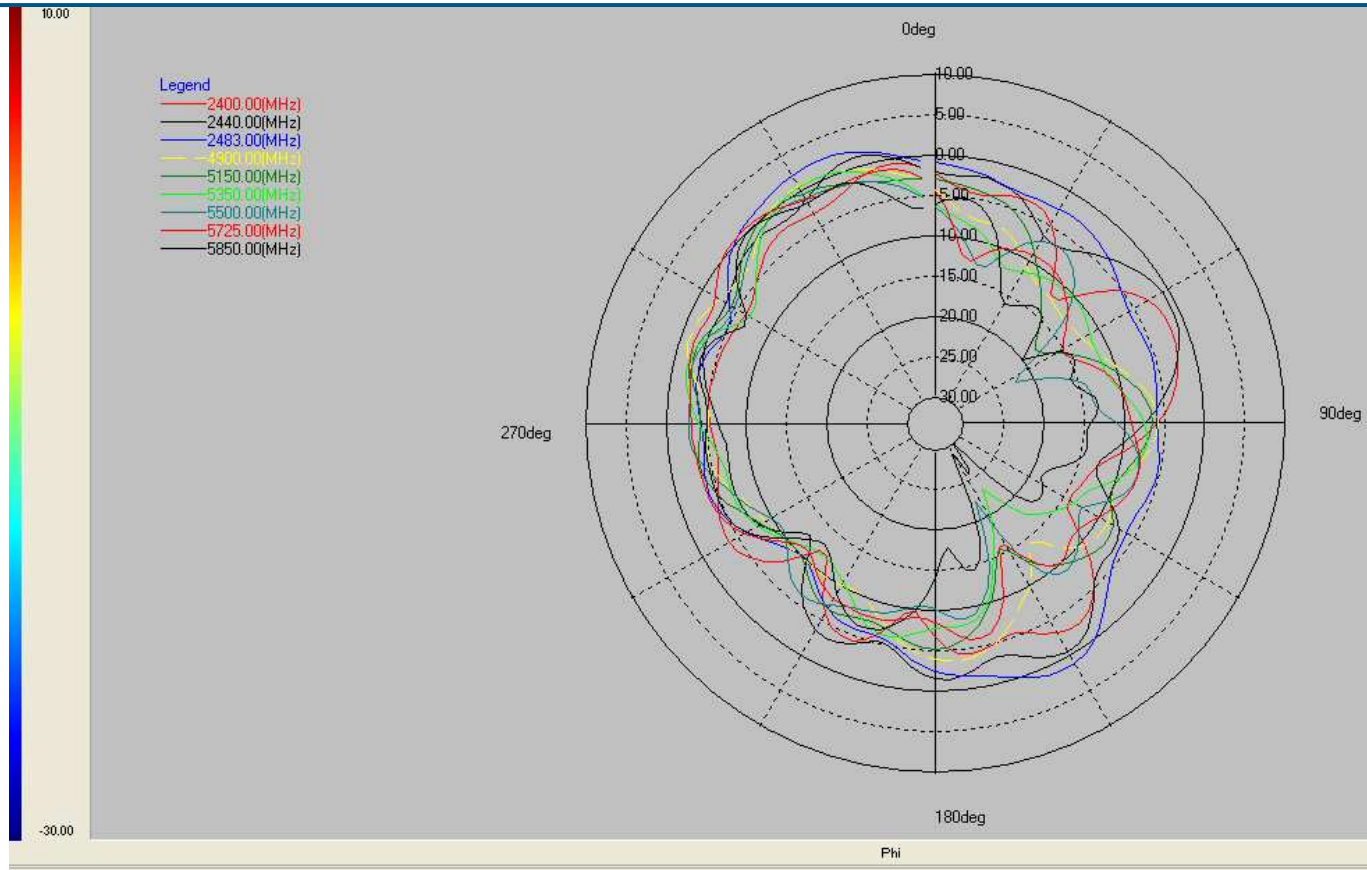
# Antenna 6 Elevation 2 Horizontal Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	0.83	-15.00 deg	-46.68	-171.00 ...	97.31 deg	47.51	-3.97	7.53	----	----	----	----
2440(MHz)	-0.94	-51.00 deg	-28.20	-165.00 ...	62.94 d...	27.25	-5.16	6.53	----	----	----	----
2483(MHz)	-1.83	45.00 deg	-39.87	-156.00 ...	55.52 d...	38.04	-7.46	7.94	----	----	----	----
4900(MHz)	1.42	6.00 deg	-39.11	-171.00 ...	38.27 d...	40.54	-5.84	8.28	----	----	----	----
5150(MHz)	2.35	-6.00 deg	-48.77	165.00 d...	45.22 d...	51.12	-4.02	10.25	----	----	----	----
5350(MHz)	2.70	38.00 deg	-22.66	-168.00 ...	31.49 deg	25.36	-3.55	7.55	----	----	----	----
5500(MHz)	2.75	39.00 deg	-26.66	-132.00 ...	36.86 d...	29.41	-3.05	8.59	----	----	----	----
5725(MHz)	2.38	42.00 deg	-35.77	174.00 d...	30.15 deg	38.16	-4.01	9.12	----	----	----	----
5850(MHz)	3.16	36.00 deg	-36.16	-105.00 ...	22.96 d...	39.32	-4.57	9.20	----	----	----	----

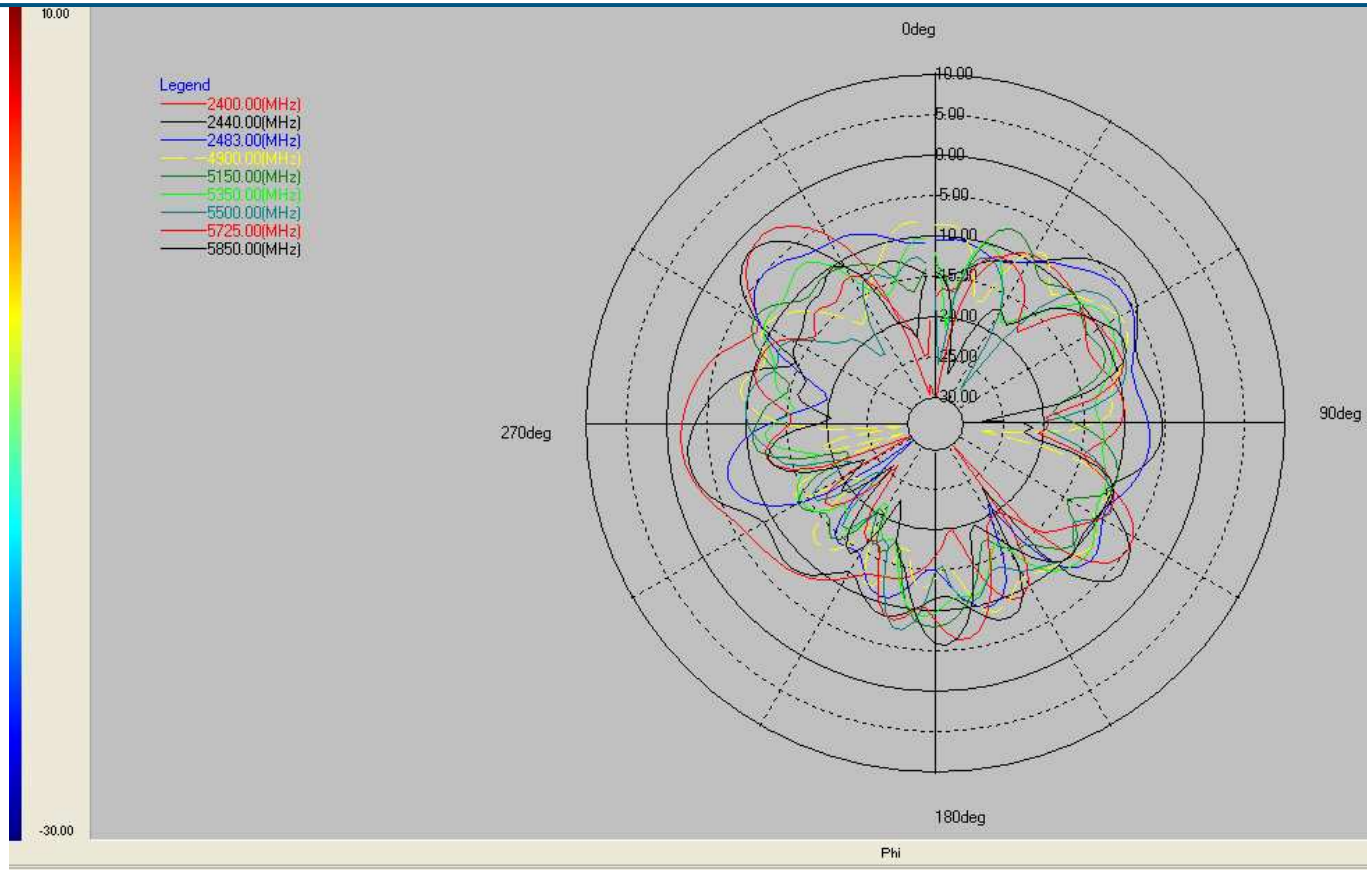


# Antenna 6 Azimuth Vertical Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-0.78	351.00 deg	-14.34	120.00 d...	----	13.56	-4.87	3.23	----	----	----	----
2440(MHz)	0.99	342.00 deg	-12.75	105.00 d...	----	13.74	-3.49	3.23	----	----	----	----
2483(MHz)	2.31	336.00 deg	-10.14	225.00 ...	47.84 d...	12.45	-2.54	2.90	----	----	----	----
4900(MHz)	0.58	330.00 deg	-14.42	141.00 d...	39.50 d...	15.00	-5.27	3.82	----	----	----	----
5150(MHz)	-0.10	324.00 deg	-18.05	54.00 d...	----	17.95	-5.45	4.18	----	----	----	----
5350(MHz)	0.48	330.00 deg	-23.34	144.00 d...	34.76 d...	23.82	-6.22	4.80	----	----	----	----
5500(MHz)	-0.71	324.00 deg	-22.55	153.00 d...	45.12 deg	21.83	-6.31	4.79	----	----	----	----
5725(MHz)	0.41	315.00 deg	-16.08	153.00 d...	77.12 deg	16.49	-5.34	4.23	----	----	----	----
5850(MHz)	-0.23	318.00 deg	-32.97	138.00 d...	39.97 d...	32.75	-7.01	7.11	----	----	----	----

# Antenna 6 Azimuth Horizontal Polarization



Layer	Max value	Position	Min val...	Position	Beam...	[Unkno...	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
2400(MHz)	-1.77	264.00 deg	-39.18	0.00 deg	38.25 d...	37.40	-7.62	7.41	----	----	----	----
2440(MHz)	-2.12	312.00 deg	-23.49	144.00 d...	19.11 deg	21.37	-7.08	3.91	----	----	----	----
2483(MHz)	-4.96	57.00 deg	-32.21	231.00 d...	34.18 deg	27.25	-9.19	4.42	----	----	----	----
4900(MHz)	-6.90	63.00 deg	-29.09	264.00 ...	26.80 d...	22.19	-11.34	4.42	----	----	----	----
5150(MHz)	-7.49	300.00 deg	-22.06	249.00 ...	19.95 deg	14.57	-11.87	3.21	----	----	----	----
5350(MHz)	-7.70	318.00 deg	-21.69	213.00 d...	33.17 deg	13.99	-11.88	3.26	----	----	----	----
5500(MHz)	-6.91	57.00 deg	-28.28	36.00 d...	32.14 deg	21.37	-12.25	4.42	----	----	----	----
5725(MHz)	-6.35	171.00 deg	-32.16	243.00 ...	16.21 deg	25.81	-12.59	4.67	----	----	----	----
5850(MHz)	-5.83	177.00 deg	-27.57	87.00 d...	14.49 deg	21.74	-13.05	4.95	----	----	----	----

# Peak Gain by Element/Polarization

Peak Gain dBi												
	Element 1		Element 2		Element 3		Element 4		Element 5		Element 6	
Freq	V	H	V	H	V	H	V	H	V	H	V	H
2400	5.26	2.35	3.81	-0.2	5.13	-0.34	3.83	-1.68	5.15	1.09	5.37	0.83
2440	4.65	1.21	3.82	0.71	4.04	-0.08	3.52	-1.95	5.41	-0.08	3.73	-0.94
2483	4.55	0.85	3.72	1.08	3.88	0.68	3.54	-3.32	5.12	-0.75	3.95	-1.83
4900	-1.05	-1.54	4.55	1.68	1.99	3.83	3.26	3.17	5.13	2.56	2.52	3.98
5150	2.65	2.46	4.18	0.94	3.38	4.18	2.95	4.22	5.91	1.62	2.78	3.86
5350	3.38	2.41	3.52	0.28	3.57	4.54	3.91	4.12	4.53	0.92	3.81	2.7
5500	4.73	3.85	4.07	0.7	2.44	5.55	2.95	4.13	5.08	1.58	3.92	2.75
5725	2.38	3.67	3.63	3.03	4.36	2.99	4.09	4.2	3.91	2.88	5.09	3.8
5850	3.84	3.83	3.48	3.68	5.52	2.96	4.15	3.74	4.67	3.78	4.2	3.95

# Overall Peak Gain

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<b>Freq MHz</b>	<b>Gain dBi</b>
<b>2400</b>	<b>5.37</b>
<b>2440</b>	<b>5.41</b>
<b>2483</b>	<b>5.12</b>
<b>4900</b>	<b>4.55</b>
<b>5150</b>	<b>5.91</b>
<b>5350</b>	<b>4.53</b>
<b>5500</b>	<b>5.55</b>
<b>5725</b>	<b>5.09</b>
<b>5850</b>	<b>5.52</b>

